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In re:

Roy Hays

Appl. No.:

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Examiner:

Tran, Philip B.

For:

METHOD AND SYSTEM FOR COLLECTING INFORMATION AT

DISTRIBUTED LOCATIONS

DECLARATION OF BILLY W. HENSLEY AND ROY HAYS UNDER 37 C.F.R. §§ 1.131

We, Billy W. Hensley and Roy Hay, being joint inventors of the claimed subject matter, do hereby declare and say as follows:

- 1. We are the joint inventors of the inventions claimed in the original and pending claims of the above-captioned patent application.
- 2. We have read and understand the above-captioned patent application, including the original specification and claims. We also have read and understand the Office Action dated March 6, 2006 and active claims 1-13.
- 3. We have read and understand the following art applied in the Office Action: U.S. Patent No. 6,692,436 to Bluth et al. (hereinafter "Bluth") filed on April 14, 2000.
- 4. We hereby incorporate by reference the CD-R filed on October 27, 2005. We submit that the creation date of each file contained on the CD-R and relied upon for overcoming the outstanding rejections predates the April 14, 2000 filing date of Bluth.
- 5. We hereby incorporate the report attached to my Declaration of November 22, 2004. The multiple entry dates subsequent to April 14, 2000 reflect dates on which files were

checked in or checked out from a database repository. Any modifications made to the files

subsequent to April 14, 2000 were not necessary for or part of the first actual reduction to

practice of the invention.

6. The software code set forth in the CD-R and existing prior to the April 14, 2000

filing date of Bluth constitutes an actual reduction to practice of the invention. We declare that

the software code worked for its intended purpose and performed each and every function of

claims 1-13.

7. We have attached a hardcopy print-out of the software code contained on the CD-

R, as requested by the Examiner. The code has been annotated and line numbers added to assist

the Examiner in identifying the relevant code for each claim feature. The top line of each page

of the hardcopy print-out includes a directory path, with the file name corresponding to the

"File(s)" set forth below in paragraphs 8-20. For example, for claim 1, phrase 1, the relevant

code may be found at the hardcopy print-out with the path "C:\Documents and

Settings\...\threadReceiver.cpp." at line 426 (on page 7 of the directory print-out).

With regard to claim 1, the following files existing prior to April 14, 2000 and 8.

submitted on the CD-R allowed claim 1 to be carried out prior to April 14, 2000:

providing user information for registered users, the user information comprising

medical information specific to the registered users;

Module: LCKioskServer.exe

File(s): threadReceiver.h; threadReceiver.cpp

Method(s): CExportKiosks::buildDailyExport;

CExportLCUsers::buildDailyExport

Line Nos.: 426 et seq.

<u>Comments</u>: User information is packed into files and placed in FTP directory for kiosk pickup

receiving updates to the user information;

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosks pick up data update files via FTP

generating update user information;

Module: LCKioskServer.exe

File(s): threadReceiver.h; threadReceiver.cpp

Method(s): CExportKiosks::buildDailyExport

CExportLCUsers::buildDailyExport

Line Nos.: 416 et seq.

Comments: Server generates files for kiosks containing user information.

The files are placed in a directory for pickup.

for each of the collection kiosks, receiving a request from the collection kiosk for the generated update user information;

Module: LCKioskClient.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): onTimerReceiveFiles

Line Nos.: 127 et seq.

Comments: All files are received via FTP. The LCKioskServer picks the

files up in the receiver directory and processes them all.

sending to the requesting collection kiosk the update user information

Module: LCKioskServer.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): CExportKiosks:buildDailyExport;

CExportLCUsers::buildDailyExport

Line Nos.: 416 et seq.

Comments: Data from the server is stored on the kiosk in a local database. Logins on the kiosks are authenticated against database.

storing the update user information at the requesting collection kiosk for subsequent requests,

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

wherein the collection kiosks use the update user information to verify whether a user is registered.

Module: LCKjoskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

9 With regard to claim 2, the following files existing prior to April 14, 2000 allowed claim 2 to be carried out prior to April 14, 2000:

wherein the collection kiosks operate as FTP clients and the computer system operates as an FTP server

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): exchangeFiles; pullFtpFiles

<u>Line Nos.</u>: 681 et seq., 804 et seq.

<u>Comments</u>: The server side FTP module is part of Windows operating system. The server generates files to be transferred and drops them into an FTP directory for kiosk pickup.

10. With regard to claim 3, the following files existing prior to April 14, 2000 allowed claim 3 to be carried out prior to April 14, 2000:

wherein the received update user information includes indications of whether to add a registered user, delete a registered user, or change information relating to a registered user

Module (server side): LCBroker.exe

<u>File(s)</u>: xc_applyKioskTrans.ccp

Method(s): applyUsers

Line Nos.: 93 et seq.

Comments: Determines if a user can be applied as a new user or must be

rejected, i.e., if user is already in system

Module (kiosk side): KCData.dll

File(s): CoKCData.h; CoKCdata.ccp

Method(s): getLCUser

Line Nos.: 184 et seq.

Comments: User's information has been updated with information from the server after data exchange. The user is in one of several statuses: a verified lifeclinic user, a candidate to become a lifeclinic user, or rejected by server.

11. With regard to claim 4, the following files existing prior to April 14, 2000 allowed claim 4 to be carried out prior to April 14, 2000:

wherein a collection kiosk sends a request for the generated update user information once a day

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosk pulls available updates

12. With regard to claim 5, the following files existing prior to April 14, 2000 allowed claim 5 to be carried out prior to April 14, 2000:

wherein the user information includes a user identifier and a password

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; exportData

Line Nos.: 197 et seq., 681 et seq., 898 et seq.

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): getUnexportedData

Line Nos.: 396 et seq.

Comments: Data sent to the server contains requests to add new users,

with request including login and password.

13. With regard to claim 6, the following files existing prior to April 14, 2000 allowed claim 6 to be carried out prior to April 14, 2000:

providing user information for registered users, the user information comprising medical information specific to the registered users;

Module: KCData.dll

File(s): CoKCUser.h; CoKCUser.cpp

Method(s): get_LCUser

Line Nos.: 184 et seq.

sending a request for updated user information;

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles

Line Nos.: 197 et seq., 681 et seq.

in response to sending the request, receiving the updated user information; and updating the provided user information for the registered user in accordance with the received updated user information so that the collection kiosk can verify whether a user of the collection kiosk is registered; and

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

<u>Method(s)</u>: onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): importLCUsers; getLCUser

Line Nos.: 627 et seq., 184 et seq.

Comments: local user information updated with information from server

via importLCUsers after data exchange.

storing the updated user information at the collection kiosk for subsequent requests

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

14. With regard to claim 7, the following files existing prior to April 14, 2000 supported claim 7 prior to April 14, 2000:

a central computer system for a web site, the central computer system providing a repository for the information, registering users of the web site, and accessing the information; and

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 265 et seq.

<u>Comments</u>: The central computer is comprised of IIS, MS SQL, FTP,

LCKioskServer, and LLCBroker.

Web Directories/Files:

- i. \Member\Admin\Kiosk
 - KioskCheck.asp; KioskSave.asp
- ii. \Member\Admin\KioskAds
 - dataAdmin.asp; default.asp; distlist.asp; distlog.asp
 distnew.asp; distsave.asp
- iii. \Member\BloodPressure
 - BloodPressure.asp; BloodPressure_4_2.asp; LoadBP.asp; LoadBP_4_2.asp; SaveBP.asp; SaveBP_4_2.asp
- iv. \Member\Charts
 - Chart.asp; EmailtoPhysician.asp; NormalBPRanges.asp;
 NormalCholesterolRAnges.asp; Review.asp;
 vitalchart.asp; NormalGlucoseRanges.asp
- v. \Member\Login
 - index.asp; Login.asp; loginError.asp; verifyUser.asp
- vi. \Member\MemberInfo
 - familyMember.asp; getSexCode.asp; LoadDependent.asp; loadMemberInfo.asp; MemberInfo.asp; MemberInfo.asp; MemberInfo_new.asp; SaveDependent.asp; saveMemberInfo_asp; saveMemberInfo_3_15.asp
- vii. \Member\NewUser
 - agreement.asp; agrmdecline.asp; Newuser.asp; Newuser_form2.asp; Welcome.asp

viii. \Member\Preferences

- ChangePassword.asp; emailUpdatePreference.asp;
LoadUserPreference.asp; mainPagePreference.asp;
newsPreference.asp; password.asp; Preferences.asp;
SaveEmailUpdate.asp; SaveMainPagePreference.asp;
SaveNewsPreference.asp; SavePreference.asp

ix. \Member\Pulse

- LoadPulse.asp; LoadPulse_4_2.asp; Pulse.asp

Pulse_4_2.asp; SavePulse.asp; SavePulse_4_2.asp

x. \Member\Weight

- LoadWeight.asp; LoadWeight_4_2.asp; SaveWeight.asp; SaveWeight_4_2.asp; Weight.asp; Weight 4 2.asp

a plurality of collection kiosks for collecting information about users, for verifying whether a user is registered at the web site, and for sending the collected information to the central computer system when the user is registered.

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles; pullFtpFiles

Line Nos.: 197 et seq., 681 et seq., 804 et seq.

Comments: Kiosks maintain local copy of centralized data

Module: KCData.dll

File(s): CoKCData.h; CoKCData.cpp

Method(s): getLCUser

Line Nos.: 184 et seq.

Comments: authenticates user against local database

15. With regard to claim 8, the following files existing prior to April 14, 2000 allowed claim 8 to be carried out prior to April 14, 2000:

wherein the information is medical information.

Module: KCData.DLL

File(s): CoBPReading.h; CoBPReading.cpp;

Line Nos.: 104 et seq.,

Module: KCData.DLL

File(s): CoWeightReading.h; CoWeightReading.cpp;

Line Nos.: 78 et seq.

16. With regard to claim 9, the following files existing prior to April 14, 2000 allowed claim 9 to be carried out prior to April 14, 2000:

registering the users at the web site when information about a user is collected at one of a plurality of collection kiosks,

Module: LCKioskServer.exe

File(s): threadReceiver.cpp; threadReceiver.h

Method(s): onTimerReceiveFiles

Line Nos.: 127 et seq.

Comments: all files received via FTP; LCKioskServer picks files up

in the receive directory and processes through

LCBroker.exe

Module: LCBroker.exe

File(s): xc_applyKioskTrans.cpp

Method(s): applyUsers

Line Nos.: 93 et seq.

determining whether the user is registered at the website; and when registered, sending the collected information to a computer system so that the collected information is accessible to the user through the web site.

Module: KCData.dll

File(s): CoKCUser.h; CoKCUser.cpp

Method(s): get LCUser

Line Nos.: 227 et seq.

Module: KioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Method(s): onExchange; exchangeFiles

Line Nos.: 197 et seq., 681 et seq.

Comments: Each kiosk authenticates users against local database during login. User statuses are verified user, candidate, and rejected.

Non-users and rejected users become candidate and registration is scheduled to occur via subsequent data exchange with server.

17. With regard to claim 10, the following files existing prior to April 14, 2000 allowed claim 10 to be carried out prior to April 14, 2000:

wherein a collection kiosk automatically sends a request for the generated update user information periodically.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 197 et seq.

18. With regard to claim 11, the following files existing prior to April 14, 2000 allowed claim 11 to be carried out prior to April 14, 2000:

wherein said sending a request for updated information is automatic and performed periodically.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 235 et seq.

19. With regard to claim 12, the following files existing prior to April 14, 2000 allowed claim 12 to be carried out prior to April 14, 2000:

wherein said sending a request for updated information is automatic and performed daily

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 123 et seq.

20. With regard to claim 13, the following files existing prior to April 14, 2000 allowed claim 13 to be carried out prior to April 14, 2000:

the information comprising medical information specific to the registered users;

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 681 et seq.

the central computer system further is for receiving updates to the user information from the collection kiosks, generating update user information, and for each of the collection kiosks, receiving a request from the collection kiosk for the generated update user information and sending to the requesting collection kiosk the update user information.

Module: LCKioskClient.exe

File(s): wndMonitorISP.h; wndMonitorISP.cpp

Line Nos.: 681 et seq.

21. We hereby declare that all statements made herein of our knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-captioned patent application or any patent issued thereon.

Billy W. Hensley	Date
Roy Hays	<u>25 Oct 20</u> 06 Date

```
1 // Cokcuser.cop : Implementation of Chcuser
 2 #include "stdafx.h"
 3 %include "KCData.h"
 4 #include "CoKCUser.h"
 5 Windrade "CoRCData.h"
 6 #include "CoBPReading.h"
 7 Winclude "CoWeightReading.h"
 8 #include "rs_kcdata.h"
11 // CKCUser
12
13 HRESULT CKCUser::FinalConstruct()
14 (
15
       m pobjowner = NULL;
       m_prs50 = NULL;
15
1.7
       m prsWeight = NCLL;
18
19
       m_vKioskUserID.vt = VT_NULL;
      m_vfirstName.vt = VT_NULL;
20
21
       m vLastName.vt = VT NULL;
      m_vMiddleName.vt = VT_NULL;
22
      m vAddressl.vt = VT NULL;
23
      m_vAddress2.vt = VT NULL;
24
       m_vCity.vt = VT_NULL;
25
      m_vstate.vt - VT_NULL;
26
      m vZip.vt = VT NULL;
27
      m_vPhone.vt = VT_NULL;
m_vPassword.vt = VT_NULL;
28
29
      m_vEMail.vt = VT_NULL;
m_vLCPassword.vr = VT_NULL;
30
31
      m_vLCUser.vt = VT NULL;
32
33
      m vUserStatus.vt = VT NULL;
34
35
       zeluta S_OK;
36 }
37
38 word CKCUser::FinalRelease()
39 (
       if (m_prs8P != NULL)
40
41
           delete m prsBP;
42
43
       if (m prsWeight != NULL)
44
           uelete m_prsWeight:
45
46
       ir (m pobjOwner != NULL)
47
           m_pobjOwner->Release();
48
49
       والمعاونة فالمنافقة
50 }
51
52 STDMETHODIMP CRQUser::InterfaceSupportsBrrowInfo(RBFIID riid)
53 {
       static const IID* arr[] =
54
55
           $IID_IKCUser
56
57
       3 :
       for (.nt i=0; i < .::cof(arr) / sizeof(arr[0]); i++)</pre>
58
59
ģΰ
           if (InlineTsEqualGUTD(*arr(i), riid))
61
               return S_OK;
62
63
       reforr S_FALSE;
64 }
5
66 STEMETHODIMP CKCUser::get KioskUserID(VARIANT *pVal)
```

```
67 (
       *pVal = m_vKioskUserID;
68
       return S_OK;
69
70 }
77
72 STDMETHODIMP CKCUser::get_FirstName(VARIANT * pVal)
73 {
74
       VariantInit(pVal);
       *pVal = _variant_t(m_vFirstName).Detach();
75
       return S_OK;
75
77 }
78
79 STDMETHODIMP CKCUser::put_FirstName(VARIANT newVal)
80 (
       m vFirstName = newVal;
81
82
       resurn S_OK;
83 }
3 4
85 STDMETHODIMP CKCUser::get_LastName(VARIANT *pVal)
86 (
       VariantInit(pVal);
87
       *pVal = _variant_t(m_vLastName).Detach();
88
       return S_OK:
9.9
90 ]
91
92 STDMETHODIMP CKCUser::put_LastName(VARIANT newVal)
93 {
       m vLastName = newVal;
94
95
       return S_OK;
96 }
97
98 STDMETHODIMP CKCUser::get_MiddleName(VARIANT *pVal)
99 (
        variantInit(pval);
100
        'pVal = _variant_t(m_vMiddleName).Detach();
101
        return S_OK;
102
103 }
104
105 STOMETHODIMP CKCUser::put_MiddleName(VARIANT newVal)
106 (
        m vMiddleName = newVal;
107
        return S_OK;
108
109 }
110
111 STDMETHODIMP CKCUser::get_Address1(VARIANT *pVal)
112 (
        VariantInit(pVal);
113
        *pVal = _variant_t(m_vAddress1).Detach();
114
        return S_OK;
115
116 }
117
118 STDMETHODIMP CKCUser::put_Address1(VARIANT newVal)
119 (
        m vAddress1 = newVal;
120
        return S_OK;
121
122 }
123
124 STDMETHODIMP CKCUser::get_Address2(VARIANT *pVal)
125
        variantInit(pVal);
126
        *pVal = _variant_t(m_vAddress2).Detach();
127
        return S_OK:
1,28
129 }
130
131 STDMETHODIMP CKCUser::put_Address2(VARIANT newVal)
132 {
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
```

```
133
        m_vAddress2 = newVal;
1.34
        raturn S_OK;
135 }
136
137 STDMETHODIMF CKCUser::get_City(VARIANT *pVal)
138 (
139
        VariantInit(pVal);
140
        *pVal = _variant_t(m_vCity).Detach();
        return S_OK;
141
142 }
143
144 STDMETHODIMP CKCUser::put_City(VARIANT newVal)
145 (
146
        m vCity = newVal;
147
        return S_OK;
148 }
149
150 STDMETHODIMP CKCUser::get_State(VARIANT *pVal)
151 {
152
        VariantInit(pVal);
153
        *pVal = _variant_t(m_vState).Detach();
        return S_OK;
154
155 }
156
157 STDMETHODIMP CKCUser::put_State(VARIANT newVal)
158 (
159
        m vState = newVal:
160
        recurn S_OK;
161 }
152
163 STDMETHODIMP CKCUser::get_Zip(VARIANT *pVal)
164 (
165
        VariantInit(pVal);
166
        *pVal = _variant_t(m_vZip).Detach();
167
        return S_OK;
168 )
169
170 STDMETHODIMP CKCUser::put_Zip(VARIANT newVal)
171 (
172
        m_vZip = newVal;
173
        return S_OK;
174 }
175
176 STDMETHODIMP CKCUser::get_Phone(VARIANT *pVal)
177 {
178
        VariantInit(pVal);
        *pVal = _variant_t (m_vPhone) .Detach();
return S_OK;
179
180
101 }
183 STDMETHODIMP CKCUser::put_Phone(VARIANT newVal)
184 (
185
        m vPhone = newVal;
18.6
        return S_OK;
187 }
188
189 STDMETHODIMP CKCUser::get Password(VARIANT *pVal)
190 |
191
        VariantInit(pVal);
192
        *pVal = _variant_t(m_vPassword).Detach();
193
        return S OK;
194 }
195
196 STDMETHODIMF CKCUser::put_Password(VARIANT newVal)
197 (
198
        m vPassword = newVal;
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
 199
          Totuin S_OK;
 200 }
 201
 202 STDMETHODIMP CKCUser::get_EMail(VARIANT *pVal)
 203 (
 204
          VariantInit(pVal);
 205
         *pVal = _variant_t(m_vEMail).Detach();
 206
          return S_OK;
 207 }
 208
 209 STDMETHODIMP CKCUser::put_EMail(VARIANT newVal)
 210 (
 211
         m vEMail = newVal;
 212
         return S_OK;
 213 }
 214
 215 STDMETHODIMP CKCUser::put_LCPassword(VARIANT newVal)
 216 {
217
         m_vLCPassword = newVal;
218
         return S_OE;
219 }
220
221 STDMETHODIMP CKCUser::put_LCUser(VARIANT newVal)
222. (
223
         m vLCUser = newVal;
224
         retuin S_OK;
225 }
226
227 STDMETHODIMP CKCUser::get_LCUser(VARIANT *pVal)
228 {
229
         VariancInit(pVal);
230
         *pVal = _variant_t(m_vLCUser).Detach();
return S_OK;
231
232 }
233
234 STDMETHODIMP CKCUser::get_UserStatus(VARIANT *pVal)
235 {
236
         VariantInit(pVal);
237
         *pVal = _variant_t(m_vUserStatus).Detach();
238
         return S_OK;
239 }
240
241 STDMETHODIMP CKCUser::put_UserStatus(VARIANT newVal)
242 (
243
        m_vUserStatus = newVal;
244.
        return S_OK;
245 }
246
247 STDMETHODIMP CKCUser::update()
246 (
249
        Crs kcuser rs;
250
        string strError;
251
        HRESULT hr = S_OK;
252
        rs.setActiveCommand("uptUser");
253
254
        rs.setParameter("kiosk_user_id", m vKioskUserID);
255
        rs.setParameter("first_name", m_vFirstName);
        rs.setParameter("last_name", m_vLastName);
rs.setParameter("middle_name", m_vMiddleName);
256
257
        rs.setParameter("address1", m_vAddress1);
258
259
        rs.setParameter("address2", m vAddress2);
        rs.setParameter("city", m_vCity);
rs.setParameter("state", m_vState);
260
251
        rs.setParameter("zip", m vZip);
262
263
        rs.setParameter("email", m vEMail);
```

rs.setParameter("phone", m_vPhone);

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
```

```
rs.setParameter("password", m_vPassword);
 265
          rs_setParameter("user_status", m_vllserStatus);
 266
 267
 268
          if (!m_pobjOwner->m_pconn->execute(rs))
269
 270
               m_pobjOwner->m_pconn->getLastError(strError);
 271
               Error(strError.c_str(), IID_IKCUser, hr = E_FAIL);
 272
          į
273
 274
          return hr;
275 }
276
277 STEMETHODIME CKCUSer::addbekeading(Variant vSystolicBe, Variant vDiastolicBe, VARIANT 🗹
          vPulse)
278 (
279
          HRESULT hr = S_OK;
280
281
          try
282
          ĺ
283
              SYSTEMTIME tm;
284
              GetLocalTime(&tm);
285
              DATE dateNow;
296
              SystemTimeToVariantTime(&tm, &dateNow);
287
288
              Crs_blood_pressure
289
290
              rs.setActiveCommand("insNewReading");
             rs.setParameter("kiosk_id", _variant_t(m_pobjOwner->m_lKioskId));
rs.setParameter("kiosk_user_id", m_vKioskUserID);
rs.setParameter("reading_dt", _variant_t(dateNow));
rs.setParameter("systolic_bp", _variant_t(vSystolicBP));
rs.setParameter("diastolic_bp", _variant_t(vDiastolicBP));
291
292
293
294
295
296
              rs_setParameter("pulse", _wariant_t(wPulse));
297
298
              if (!m_pobjOwner->m_pconn->execute(rs))
299
              ĺ
300
                   string strError;
301
                   m_pobjOwner->m_pconn->getLastError(strError);
302
                   Error(strError.c_str(), IID_IKCData, E_FAIL);
303
                   throw E_FAIL;
304
305
306
              removeOldReadings(rs);
307
308
         catch ( com error & e)
309
310
              Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
311
312
         catch (HRESULT hrError)
313
314
              hr = hrError;
315
316
         catch(...)
317
318
              hr = E_FAIL;
319
320
321
         return hr;
322 }
323
324 STDMETHODIMP CKCUser::addWeightReading(VARIANT vWeight)
325 (
326
         HRESULT hr = S_OK;
327
328
         try
329
```

{

```
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```

```
330
               SYSTEMTIME tm;
331
               GetLocalTime(&tm);
332
               DATE dateNow;
               SystemTimeToVariantTime(&tm, &dateNow);
333
334
335
               Crs_weight
                                    rs;
336
337
               rs.setActiveCommand("insNewReading");
               rs.setParameter("kiosk_id", variant_t(m_pobjOwner->m_lKioskId));
rs.setParameter("kiosk_user_id", m_vKioskUserID);
rs.setParameter("reading_dt", variant_t(dateNow));
rs.setParameter("weight", variant_t(vWeight));
338
339
340
341
342
343
               it (!m_pobjOwner->m_pconn->execute(rs))
344
345
                    string strError;
                    m_pobjOwner->m_pconn->getLastError(strError);
346
347
                    Error (strarror.c_str(), IID_INCData, E_FAIL);
348
                    throw E_FAIL;
349
               ì
350
351
               removeOldReadings(rs);
352
353
          catch(_com_error & é)
354
355
               Error((BSTR) e.Description(), IID IKCUser, hr = e.Error());
356
353
          datch (MRESULT brError)
358
359
               hr = hrError;
360
          ì
361
          catch(...)
362
363
               hr = E_FAIL;
364
3€5
366
          return hr;
367 }
368
369
370 STDMETHODIMP CKCUser::addAlternateID(VARIANT vID, VARIANT vIdType)
3/1 1
372
          HRESULT hr = S_OK;
373
374
          txy
375
          į
376
               Crs_alternate id
377
378
               rs.setActiveCommand("insNewId");
379
               rs.setParameter("kiosk_id", _variant t(m pobjOwner->m lKioskId));
              rs.setParameter("alternate_id", _variant_t(vID));
rs.setParameter("khosk_user_id", m_vKioskUserID);
if (vIdType.vt == VT_EMPTY || vIdType.vt == VT_NULL)
    rs.setParameter("id_type", _variant_t(2L));
380
301
382
383
              else
384
385
                    rs.setParameter("id_type", _variant t(vIdType));
3.8.6
387
               if (!m_pobjOwner->m_pconn->execute(rs))
388
389
                    string strError;
390
                    m_pobjOwner->m_pconn->getLastError(strError);
391
                    Error(strError_c_str(), LLD_LKCData, E_EALL);
392
                    throw E_FAIL;
393
               }
394
395
          }
```

```
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```

```
396
        catch (_com_error & e)
397
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
398
399
        catch (NKESULT hrError)
400
401
            hr = hrError;
402
403
        }
404
        catch(...)
405
        4
            hr = E_FAIL;
406
407
408
409
        return hr;
410 }
411
412 STDMETHODINP CKCUser::getFirstBP(VARIANT *pBPReading)
413 {
        HRESULT hr = S_OK;
414
415
416
        try
417
        (
            if (m_prs&P != NULL)
418
419
                delete m prsBP;
420
            m_prsBP = new Crs_blood_pressure;
421
            m_prsBP->setActiveCommand("getReadings");
422
            m_prsBP->setParameter("kiosk_user_id", m_vKioskUserID);
4.2.3
424
425
            if (!m_pobjOwner->m_pconn->execute(*m_prsBP))
426
427
                string strError;
                m_pobjOwner->m_pconn->getLastError(strError);
428
                Error(strError.c_str(), IID_IKCUser, hr = E_FAIL);
429
430
                throw E_FAIL;
431
432
433
            hr = getNextBP(pBPReading);
434
435
        catch (_com_error & e)
436
            Error((BSTR) e.Description(), IID IKCUser, hr = e.Error());
437
438
439
        catch (HRESULT hrError)
440
            hr = hrError;
441
442
        }
        catch(...)
443
444
        {
445
            hr = E_FAIL;
446
447
448
        return hr;
449 }
450
451 STDMETHODIMP CKCUser::getNextBP(VARIANT *pvBPReading)
452 {
        HRESULT hr = S OK;
453
454
        VariantClear (pvBPReading);
        CComObject<CBPReading> * pobjBP = NULL;
455
        _variant_t vVal((IDispatch *) NULL, false);
456
457
458
        try
459
460
            if (m_prsBP == NULL)
461
```

```
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 462
                 Error("CKCUser::getFirstBP() must be called first", IID_IKCUser, E_FAIL);
 463
                 throw E EALL;
 464
             ì
 465
 466
             if (!m prs&F->isEUF();
 467
                 if (FMILED(hr = CComObject<CBPReading>::CreateInstance(&pobjBP)))
 468
 469
                 Į
470
                     stringstream strmError;
471
                     strmError << "CComObject<CBPReading>::CreateInstance() failed. Error =
         [0x";
472
                     strmError << std::hex << hr << "]";</pre>
473
                     Error(strmError.str().c_str(), IID_IKCUser, hr);
474
                     throw hr;
475
476
477
                 pobjBP->load(*m_prsBP);
473
                 m_prsBP->moveWext();
479
480
                'IDispatch * pIDispatch;
481
                if (FAILED(hr = pobjBP->QueryInterface(IID_IDispatch, (void **) &
        pIDispatch)))
482
483
                     stringstream strmError;
484
                     strmError << "QueryInterface(IDispatch) failed. Error = [0x";</pre>
485
                     strmError << std::hex << hr << "]";
486
                     Error(strmError.str().c_str(), IID_IKCUser, hr);
427
                     pobjBP->Release();
488
                     throw hr;
489
490
491
                vVal.pdispVal = pIDispatch;
492
493
494
        catch(_com_error & e)
495
496
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
497
498
        catch (HRESULT hrError)
499
500
            hr = hrError:
501
502
        catch(...)
503
504
            hr = E_FAIL;
505
506
507
        if (SUCCEEDED(hr))
วีบัช
            *pvBPReading = vVal.Detach();
509
510
        return hr;
511 }
512
513 STOMETHODIMP CKCOser::getFirstWeight(VARIANT + pvWeight)
514 (
        HRESULT hr = S_OK;
515
516
517
        try
518
519
            if (m_prsWeight != NULL)
520
                delete m prsWeight;
521
522
           m prsWeight = new Crs_weight;
523
           m prsWeight->setActiveCommand("getReadings");
           m prsWeight->setParameter("kiosk_user_id", m_vKioskUserID);
524
525
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
 526
             if (!m_pobjOwner->m_pconn->execute(*m_prsWeight))
 527
             ĺ
528
                 string strError;
 529
                 m_pobjOwner->m_pconn->getLastError(strError);
 530
                 Error(strError.c_str(), IID_INCOser, hr = E_FAIL);
 531
                 throw E_FAIL;
532
             }
 533
534
             hr = getNextWeight(pvWeight);
535
536
         catch ( com_error & e)
537
             Error((BSTR) e.Description(), HID_IKCUser, hr = e.Error());
538
539
540
         Latch (HRESULT hrError)
541
542
             hr = hrError;
543
544
         catch(...)
545
         -{
546
            hr = E FAIL;
547
5.48
549
         return hr:
550 }
551
552 STEMETHODIMP CKCUser::getNextWeight(VARIANT *pvWeight)
553 {
554
         HRESULT hr = S OK;
555
        VariantClear(pvWeight);
556
        CComObject<CWeightReading> * pobjWeight = NULL;
557
        _variant_t vVal((IDispatch *) NULL, false);
558
559
        try
560
        i
361
            if (m prsWeight == NULL)
562
563
                 Error("CKCUser::getFirstWeight() must be called first", IID_IKCUser,
        E_FAIL);
564
                 throw E FAIL;
5.65
            ż
566
567
            if (!m_prsWeight->isEOF())
568
569
                 1f (FAILED(hr = CComObject<CWeightReading>::CreateInstance(&pobjWeight)))
570
571
                     stringstream strmError;
572
                     strmError << "CComObject<CWeightReading>::CreateInstance() failed.
        Error - [0x";
573
                     strmError << std::hex << hr << "]";
574
                     Error(strmError.str().c_str(), IID_IKCUser, hr);
575
                     throw hr;
576
577
578
                pobjWeight->load(*m_prsWeight);
579
                m prsWeight->moveNext();
580
581
                IDispatch * pIDispatch;
5.8.2
                if (FAILED(hr = pobjWeight->QueryInterface(IID IDispatch, (void **) &
        pIDispatch)))
583
564
                    stringstream strmError;
strmError << "QueryInterface(IDispatch) failed. Error = [0x";</pre>
585
58€
                     strmError << std::hex << hr << "]";
587
                    Error(strmError.str().c_str(), IID IKCUser, hr);
588
                    pobjWeight->Release();
```

```
589
                     throw hr;
590
591
                 vVal.pdispVal = pIDispatch;
592
593
594
        catch(_com_error & e)
595
596
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
597
598
599
        catch (HRESULT hrError)
600
601
            hr = hrError;
602
        catch(...)
603
604
        1
605
            hr = E FAIL;
€0€
607
608
        if (SUCCEEDED(hr))
609
             *pvWeight = vVal.Detach();
610
611
        return hr:
612 )
613
614 STDMETHODIMP CKCUser::validatePassword(VARIANT vPassword, VARIANT vPWordType, VARIANT r
        *pvfValid)
615 {
616
        HRESULT hr = 5 OK;
617
        VariantInit(pvfValid);
61.8
619
        try
620
        {
            pvfValid->vt = VT_BOOL;
621
            pvfValid -> bVal = \overline{0};
622
623
            long lPWordType;
624
             if (vPWordType.vt == VT_EMPTY || vPWordType.vt == VT_NULL)
625
                 lPWordType = 1;
62.6
627
             else
                 lPWordType = (long) _variant_t(vPWordType);
628
629
             if (lPWordType != 1 && lPWordType != 2)
630
631
             {
                 Error("Invalid PasswordType.", IID_IKCUser, E_INVALIDARG);
632
633
                 hr = E_INVALIDARG;
             ŀ
634
635
             else
636
             1
                 _bstr_t bstrPWordIn(vPassword);
_bstr_t bstrPWord;
637
638
                 If {lPWordType == 1}
€39
                     bstrPWord = m_vLCPassword;
640
                 else
641
                     bstrPWord = m_vPassword;
642
643
                 string strBPWordIn;
644
                 string strPWord;
645
646
                 if (bstrPWordIn.length())
647
                      strBPWordIn = (char *) bstrPWordIn;
648
649
650
                 if (bstrPWord.length())
                      strPWord = (char *) bstrPWord;
651
652
                 TOUPPER (strBPWordIn);
653
```

```
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```

```
654
                TOUPPER(strPWord);
 655
 656
                if (strBPWordIn.compare(strPWord) == 0)
 657
                    pvfValid->boolVal = -1;
 65€
659
                    pvfValid->boolVal = 0;
660
661
662
        catch(_com_error & e)
563
664
            Error((BSTR) e.Description(), IID_IKCUser, hr = e.Error());
665
        }
666
        catch(...)
667
        1
668
            Error ("Unknown exception", IID_IKCUser, hr = E_FAIL);
669
670
671
        return hr;
672 }
673
675 // internal C++ interface
676
677 bool CKCUser::load(CSdoRecordset & rs)
678 (
679
        m_vKioskOserID = rs.getField("kiosk user id");
        m_vFirstName = rs.getField("first_name");
680
681
        m_vLastName = rs.getField("last name");
682
        m_vMiddleName = rs.getField("middle name");
683
       m_vAddress1 = rs.getField("address1");
       m vAddress2 = rs.getField("address2");
684
685
       m_vCity = rs.getField("city");
686
       m_vState = rs.getField("state");
687
       m_vZip = rs.getField("zip");
688
       m_vPhone = rs.getField("phone");
689
       m vPassword = rs.getEield("password");
690
       m_vUserStatus = rs.getField("user_status");
691
692
       return true;
693 }
694
695 void CKCUser::setOwner(CKCData * pobjOwner)
696 (
€9?
       m_pobjOwner = pobjOwner;
698
       m_pobjOwner->AddRef();
699
       return;
700 )
701
702 void CKCUser::removeOldReadings(CSdoRecordset & rs)
703 (
704
        variant_t vLastReading;
705
       int mNumber = 0;
706
       string strError:
707
708
       rs.setActiveCommand("getReadings");
709
       rs.setParameter("kiosk_user_id", m_vKioskUserID);
710
       if (!m_pobjOwner->m_pconn->execute(rs))
711
       1
712
           m_pobjOwner->m_pconn->getLastError(strError);
713
           Error(strError.c_str(), IID_IKCData, E_FAIL);
714
           throw E_FAIL;
715
716
717
       while (!rs.isEOF())
718
719
           nNumber++;
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCUser.cpp
720
            if (nNumber >= m_pobjOwner->m_lReadingsToKeep)
721
722
                vLastReading = rs.getField("reading_dt");
723
                break;
724
725
            rs.moveNext(); -
726
727
728
        rs.close();
729
730
        if (vLastReading.vt != VT_EMPTY)
731
732
            rs.setActiveCommand("removeOld");
733
            rs.setParameter("reading_dt", vLastReading);
734
            if (!m_pobj@wner->m_pconn->execute(zs))
735
736
                m_pobjOwner->m_pconn->getLastError(strError);
737
                Error(strError.c_str(), IID_IKCData, E_FAIL);
738
                Throw E_FAIL;
739
            }
740
741
742
       return;
```

743 } 744 /45

```
1 // CoBPReading.cpp : Implementation of CBPReading
2 #include "stdafx.h"
3 #include "KCData.h"
 4 #include "CobPhading.h"
5 Hinclude "rs kodata.h"
8 // CBPReading
10 STDMETHODIMP CBPReading::InterfaceSupportsErrorInfo(REFIID riid)
17 (
12
      static const IID* arr[] =
13
          ATTU_IMPResding
14
15
      for (int i=0: i < sizeof(arr) / sizeof(arr(0)): i++)
16
17
18
          if (InlineIsEqualGUID(*arr{i}, riid))
19
               return 3_OK:
20
21
       return S_FALSE;
2.2 1
23
24 HRESULT CBPReading::FinalConstruct()
25 {
      m vPulse.vt = VT NULL;
26
      m_vDiastolicBP.v\overline{t} = VT NULL;
27
28
      m vSystolicBP.vt = VT NULL;
      m_vReadingDt.vt = VT \overline{NULL};
29
      m_vKioskUsertU.vt = VT_NULL;
30
31.
       return S_OK;
32 1
33
34 void CBPReading::FinalRelease()
35 E
36 1
37
38 STEMETHODIMP CBPReading::get_KioskUserID(VARIANT *pVal)
39 f
        variant_t wVal(*pVal, false);
40
       vVal = m vKioskUserID;
41
       *pVal = vVal.Detach();
42
43
       return 8 OK;
44 }
45
46 STOMETHODIMP CBPReading::get_ReadingDate(VARIANT *pVal)
47 (
        variant t vVal('pVal, false); :
48
       vVal = m vReadingDt;
49
       *pVal = vVal.Detach();
50
51
       return S_CM;
52 }
53
54 STDMETHODIMP CBPReading::put_ReadingDate(VARIANT newVal)
55 (
56
       m vReadingDt = newVal;
       return S_OK;
5.7
58 }
59
60 STDMETHODIMP CBPReading::get_SystolicBP(VARIANT *pVal)
61 {
        variant_t vVal(*pVal, false);
62
       \overline{v}Val = m vsystolicRP;
63
       *pval = Wal.Detach();
64.
65
       return 5_OK;
66 J
```

```
c:\Documents and Settings\Billy\My ...Patents\LCServices\KCData\CoBPReading.cpp
```

```
67
 68 STDMETHODIMP CBPReading::put_SystolicBP(VARIANT newVal)
 69 (
 70
       m_vSystolicBP = newVal;
 71
       return S_OK;
 72 }
 73
 74 STDMETHODIMP CBPReading::get_DiastolicBP(VARIANT *pVal)
 75 (
 76
        variant t vVal(*pVal, false);
 77
       vVal - m_vDiastolicBP;
       *pVal = vVal.Detach();
 78
 79
       return S OK;
 60 ;
 81
 82 STDMETHODIMP CBPReading::put_DiastolicBP(VARIANT newVal)
83 {
8.4
       m vDiastolicBP = newVal;
85
       return 5_OK:
86 }
87
88 STUMETHODIMP CBPReading::get_Pulse(VARIANT *pval)
89 (
        variant_t vVal(*pVal, false).
90
91
       vVaI = m_vPuise;
92
       *pVal = vVal.Detach();
93
       return S_OK;
94 }
95
96 STDMETHODIMP CBPReading::put_Pulse(VARIANT newVal)
97 {
98
       m_vPulse = newVal;
99
       return S OK:
100 }
101
103 // internal C++ interface
104 bool CBPReading::load(CSdoRecordset & rs)
105 1
106
       m_vPulse = rs.gerField("nulse");
107
       m_vDiastolicBP = rs.getField("diastolic bp");
       m_vSystolicBP = rs.getField("systolic_bp");
108
       m vReadingDt = rs.getField("reading_dt");
109
110
       m vKioskUserID = rs.getField("kiosk user id");
       return true:
111
112 |
113
114
```

```
1 // CoKCData.cpp : Implementation of CKCData
 2 #include "stdafx.h"
 3 Hinclude "KCData:h"
 4 #include "CoKCData.h"
 5 #include "CoKCUser.h"
 6 #include "registryKCData.h"
 7 #include "Encryptor.h"
 В
 9 #include "rs_kcdata.h"
10
11 HRESULT CKCData::FinalConstruct()
12 (
13
      m_lKioskId - 0;
14
       m pconn = NULL;
15
       return CoCreateFreeThreadedMarshaler(
          GetControllingUnknown(); &m_pUnkMarshaler.p);
16
17 }
19
19 void CKCData::FinalRelease()
20 €
21
      close();
22
      m pUnkMarshaler.Release();
23 }
24
25
27 // CKCData
28
29 STDMETHODIMP CKCData::IntertaceSupportsErrorInto(REFIID riid)
30 (
31
      static const IID* arr[] =
32
33
          &IID IKCData
34
35
      for (int i=0; i < sizeof(arr) / sizeof(arr[0]); i++)</pre>
36
37
38
          if (InlineIsEqualGUID(*arr[i], riid))
39
              return S_OK;
4Ú
41
42
      return S_FALSE:
43 }
44
45 STDMETHODIMP CKCData::open()
46
  (
47
      HRESULT hr = S_OK;
48
49
      try
50
51
          CRegistryKCData registry:
52
          if {!registry.open(})
53
54
              Error(registry.m_strLastError.c_str(), IID_IKCData, E_FAIL);
55
              throw E_FAIL;
56
          }
57
58
          m_lKioskId = registry.m_lKioskId;
59
          m_lReadingsToKeep = registry.m_lNumberReadingsToKeep;
60
61
          if (m pconn != NULL)
62
              delete m pconn;
53
64
          m_pconn = new CSdoConnection;
65
66
          // these options are not compatible with access driver
```

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCData.cpp
 67
            m_pconn->setCommitOptionsOnConnect(false);
 68
            .m_pconn->useProvider(false);
 59
            m_pconn->setForwardRecordsetToOpen(false);
 70
 71
             string strConn - "DSN-";
 72
            strConn += registry.m_strKCDataSource + ";";
 73
 74
            if ('m_pconn->connect( strConn.c_str(),
 75
                                      registry.m_strKCUser.c_str(),
 76
                                      registry.m_strKCPassword.c_str() ))
 77
 78
                 string strError;
 79
                m_pconn->getLastError(strError);
 80
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
 8.1
                throw E FAIL;
 32
 83
        }
 84
        catch (HRESULT hrError)
 85
 86
            hr = hrError;
 87
 88
        catch(...)
 99
 ЭÛ
            hr = E_FAIL;
 91
 92
 93
        return hr;
 94 }
 95
 96 STDMETHODIMP CKCData::close()
 97 {
 98
        if (m_pconn)
 99
        (
100
            m_pconn->close();
101
            delete m_pconn;
102
103
        m_pconn = NULL;
104
105
        return S OK;
106 |
107
108 STDMETHODIMP CKCData::buildRegistry()
109 (
        HRESULT hr = 5_0K;
110
111
112
        CRegistryKCData registry;
113
        if (!registry.buildInitial())
114
            Error(registry.m_strLastError.c_str(), IID_IKCData, hr = E_FAIL);
115
116
        return hr;
117 ]
110
119 STDMETHODIMP CKCData::getKioskUser(VARIANT vKioskId, VARIANT vIdType, VARIANT *
        pvDispUser)
120 (
121
        VariantInit(pvDispUser);
122
        _variant_t vRetVal((IDispatch *) NVLL, false);
123
124
        HRESULT hr = S_OK;
125
126
        try
127
126
            Cis_kedala is;
            rs.setActiveCommand("cmdGetById");
129
130
            rs.setParameter("alternate_id", _variant_t(vKioskId));
```

rs.setParameter("id_type", _variant_t(vIdType));

```
c:\Documents and Settings\Billy\My ...\Patents\LCServices\KCData\CoKCData.cpp
132
             % (!m_pconn->execute(rs))
133
134
                 string strError;
135
                 m_pconn->getLastError(strError);
136
                 Error(strError.c_str(), IID_IRCData, hr = E FAIL);
137
138
139
140
             if (!rs.isEmpty())
141
142
                 ccomobject<CKCUser> * pobjUser;
143
144
                 if (FAILED(hr = CComObject<CKCUser>::CreateInstance(&pobjUser)))
145
146
                     Error("CComObject<CKUser>::CreateInstance() failed.", IID_IKCUser, hr)*
147
                     throw hr;
148
149
150
                 pobjUser->setOwner(this);
151
                 Thispatch * pThisp = NIH.L;
152
                 if (FAILED(hr = pobjUser->QueryInterface(IID_IDispatch, (void **) 6
153
        plbisp)))
154
                 1
155
                     Error ("QueryInterface (IDispatch **) failed", IID IKCUser, hr);
156
                     pobjUser->Release();
157
                     throw hr:
156
159
160
                vRetVal - pIDisp;
161
162
                pobjUser->load(rs);
163
164
165
        catch(_com_error & e)
166
167
             bstr_t bstrError = e.Description();
            Error((char *) bstrError, HD_IKCData, hr = e.Error());
168
169
170
        catch (MRESULT hrError)
171
            hr = hrError;
172
173
        parch(...)
174
175
1/6
            hr = E_FAIL;
177
178
179
        *pvDispUser = vRetVal;
180
181
        tetaro hr;
182 }
183
184 STDMETHODIMP CKCData::getLCUser(VARIANT vLogon, VARIANT *pvuser)
185 {
186
        VariantInit (pvUser);
187
        _variant_t vRetVal((IDispatch *) NULL, false);
188
189
190
        HRESULT hr = S OK;
191
192
        rry
193
194
            // check to see if LC user
195
            Crs_lifeclinic_users rsLC;
```

```
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```

```
rsLC.setActiveCommand("getByName");
196
            rsLC.setParameter("user_name", _variant_t(vLogon));
197
            if (!m_pconn->execute(rstC))
198
199
            {
                string strError;
200
                m_pconn->getLastError(strError);
201
                Error(strError.c_str(), IID_IKCData, hr = E_FAIL);
202
                throw hr:
203
204
205
            _variant_t vUserName;
_variant_t vUserPassword;
206
207
            _variant_t vCpiId;
208
209
            _variant_t vUser;
21.0
            if (!rsLC.isEmpty())
211
212
            {
                vCpiId = rsLC.getField("lifeclinic_id");
213
                string strEncryptedPassword;
214
215
                string strPassword;
                rsLC, getField("password", strEncryptedPassword);
216
                if (strEncryptedPassword.size())
217
219
219
                     CEncryptor encryptor;
                     encryptor.Decrypt(strEncryptedPassword.c_str(), NULL, strPassword);
220
                     vUserPassword = strPassword.c_str();
221
222
                vUserName = rsLC.getField("user_name");
223
                csLC.close();
224
225
                if (FAILED(getKioskUser(vCpiId, _variant_t((long) IdType_LC), &vRetVal)))
226
                     throw E_FAIL;
227
2.28
                IKCUser * pIKCUser = MULL;
229
                bool fNewUser = false;
230
231
                if (vRetVal.pdispVal == NULL)
232
                 {
                     if (FAILED(createUser(&vRetVal)))
233
                         throw E_FATT.;
234
235
                     fNewUser = true;
236
237
                 ì
238
                if (FAILED(hr = vRetVal.pdispVal->OueryInterface(IID_IKCUser. (void **) & &
239
        pIKCUser)))
240
                 f
                     stringstream strmEcror;
241
                     strmError << "pTDispatch->QueryTnterface(IID_IKCuser) failed. Error = &
242
         {";
                     strmError << std::hex << hr << "].";
243
                     Error(strmError.str().c_str(), IID_IKCData, hr);
244
                     throw hr;
245
                 ł
246
247
                 if (fNewUser)
248
249
                     pIKCUser->addAlternateID(vCpiId. _variant_t((long) IdType_LC));
250
                     DIKUMBET->DUT MEETSTATUS ( VARIANT T ( (LONG) MSTAT ( (NewKU) );
251
                     plkCUser->update();
252
253
254
                 pIKCUser->put_LCUser(vUserName);
255
                 pIKCUser->put_LCPassword(vUserPassword);
256
                 pIKCUser->Release();
257
258
         }
```

```
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```

```
catch (_com_error & e)
2.60
261
            bstr_t bstrError = e.Description();
262
           Error ((char *) betrError, IID_IKCData, hr = e.Elgor()))
263
764
       catch (HRESULT hrError)
265
266
           hr = hrError;
267
268
        catch(...)
269
270
            hr = E FAIL;
271
272
273
        *pvUser = vRetVal.Detach();
274
275
        return hr;
276
277 }
278
279
280 STDMETHODIMP CKCData::createUser(VARIANT * pvUser)
281 (
        HRESULT hr = S_OK;
383
        bool fTransBegun - false:
283
        string strError;
284
        CComObject<CKCUser> * pobjUser = NULL;
285
 286
 287
        try
 288
            if (m_pconn -- NULL || !m_pconn->isConnected())
 289
                 Error("There is no database connection", IID_IRCData, hr = E_FAIL);
 290
 291
                 throw hr;
 292
 293
             294
 295
             // create underlying database record
 296
             fTransBegun = m_pconn->beginTrans();
 297
 298
             Crs_kcuser
                            IS;
 299
             rs.setActiveCommand("cmdInsNewUser");
 200
             rs.setParameter("kiosk_id", _variant_t(m_lKioskId));
 301
             if (!m_pconn->execute(rs))
 302
 303
                 m_pconn->getTastError(strError);
 304
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
 305
                 throw E_FAIL;
 306
 307
 308
             // get the newly created id
 309
             rs_setActiveCommand("smdGetNewUser");
 310
             if (!m_pconm->execute(rs))
 311
  312
                 m_pconn->getLastError(strError);
 313
                 Error(strError.c_str(), IID_IKCData, E_FAIL):
 314
                 throw & FAIL!
  315
              variant_t vNewId = rs.getField("kiosk_user_id");
  316
  317
             rs.close();
  318
  319
              // mark record as in use
  320
              rs.setActiveCommand("setUserInUse");
  321
              rs.setParameter("in_use", _variant_t(-lL));
  322
              rs.setParameter("kiosk_user_id", vNewId);
  323
              if (!m_pconn->execute(rs))
  324
  325
```

```
. 326
                 m_pconn->getLastError(strError);
327
                Error(strError_c_str(), LID_IKCData, E_EAIL);
328
                throw E_FAIL;
329
            }
330
 331
            // put primary id in id map
            rs.setActiveCommand("putIdMap");
332
333
            rs.setParameter("kiosk_id", _variant_t(m_lKioskId));
            rs.setParameter("alternate id", vNewId);
rs.setParameter("kiosk_user_id", vNewId);
334
335
336
            if (im_pconn->execute(rs):
337
            ĺ
338
                m pconn->getLastError(strError);
339
                Error(strError.c_str(), IID IKCData, E FAIL);
340
                throw E_FAIL;
341
342
            343
344
            // create com object
345
            if (FAILED(hr = CComObject<CKCUser>::CreateInstance(&pobjUser)))
346
34?
                Error("CComObject<CKCUser>::CreateInstance() failed", IID_IKCData, hr);
348
                throw hr;
349
350
            pobjUser->setOwner(this);
351
            pobjUser->m_vKioskUserID = vNewId;
352
353
354
            // return IDispatch in VARIANT
            IDispatch * pIDisp = MULL;
355
35€
            if (FAILED(hr = pobjUser->QueryInterface(IID_IDispatch, (void**) &pIDisp)))
357
358
                Error("CComObject<CKCUser>::QueryInterface(IDispatch) failed", ITD_IKCDataw
        , hr);
359
                throw hr;
360
            }
361
362
             _variant_t vRet(pIDisp, false);
363
            *pvUser = vRet.Detach();
364
365
            pobjUser = NULL;
366
367
        catchi_com_ertor & el
3.58
369
             bstr_t bstrEffor - e.Description();
370
            Error ((char *) bstrError, IID_IKCData, hr = e.Error());
371
372
        catch (HRESULT hielioi)
373
        1
314
            hr = hrError;
375
376
        catch(...) ·
377
378
            Error ("Unknown exception", TID TRCData, hr = E FAIL);
379
380
381
        if (fTransBegun)
382
383
            if (SUCCEEDED(hr))
                m_pconn=>commitTrans();
304
385
            else
386
                m_pconn->rollbackTrans();
387
388
389
        // if pobjUser is valued then an error ocurred after its creation
390
        if (pobjUser != NULL)
```

```
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```

```
391
             delete pobjuser;
392
393
         return hr;
394 }
395
396 STDMETHODIMP CKCData::getUnexportedData(VARIANT *pvData)
397 {
398
        HRESULT hr = S OK;
399
400
        VariantInit(pvData);
401
        string strError;
402
403
        try
404
405
            Crs_kcuser rsUser;
406
             Crs_blood_pressure rsBP;
407
            Crs_weight rsWeight;
408
            Crs_alternate_id rsIds;
409
410
            rsUser.setActiveCommand("getUnExported");
411
            rsBP.setActiveCommand("getUnExported");
412
             rsWeight.setActiveCommand("getUnExported");
413
            rsIds.setActiveCommand("getUnExported");
414
415
            if (!m_pconn->execute(reUser))
416
417
                m_pconn->getLastError(strError);
418
                Error(strError.c_str(), IID_IRCData, E_FAIL);
419
                throw E FAIL;
420
421
422
            if (im_pconn->execute(rsBP))
423
424
                m_pconn->getLastError(strError);
425
                Error(strError.c_str(), IID_IKCData, E_FAIL);
426
                throw E FALL;
427
428
429
            if (!m_pconn->execute(rsWeight))
430
431
                m_pconn->getLastError(strError);
                Error(strError.c_str(), IID_IKCData, E_FATL);
472
433
                throw E_FAIL;
434
            }
435
436
            if (!m_pconn->execute(rsIds))
437
438
                m poonn->gertaererror(streeror);
439
                Error(strError.c str(), IID IMCData, E FAIL);
440
                throw E_FAIL:
441
442
443
            GXmlDocument xdocXData("<kiosk data/>");
444
            xdocXData_setUpperCaseTags(false):
445
446
            Pavaer. boxml (XdocxData);
447
            rsBP.toXml(xdocXData);
448
            rsWeight.toXml(xdocXData);
449
            rsIds.toXml(xdocXData);
450
451
            string strXml;
            xdocXData.getXML(strXml);
452
453
454
             variant_t vVal = strXml.c str();
            *pvData = vVal.Detach();
455,
456
        )
```

```
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```

```
457
        catchi_com_arror & e)
458
        (
459
            Error((BSTR) e.Description(), IID_IKCData, hr = e.Error());
460
461
        catch (HRESULT hrError)
462
463
            hr = hrError;
464
465
        catch(...)
466
        1
457
            hr = E_FAIL;
468
        ŀ
469
470
        return hr:
471 )
472
473 STOMETHODIMP CKCData::markDataExported()
474 (
475
        HRESULT hr = S_OK;
476
        string strError;
477
        bool fTransStarted = false;
4.74
479
        try
480
491
            Cra_kewser radder;
492
            Crs_blood_pressure rsBP;
483
            Crs_weight rsWeight;
484
            Crs_alternate_id rslds;
485
486
            rsuser.setActiveCommand("markExported");
487
            rsBP.setActiveCommand("markExported");
488
            rsWeight.setActiveCommand("markExported");
489
            rsIds.setActiveCommand("markExported");
490
491
            if (!(TransStarted = u_pcom->beginTrans()))
492
            1
493
                m_pconn->qetLastError(strError);
494
                Error(strError.c_str(), IID_IKCData, E_FAIL);
495
                throw E_FAIL;
496
497
498
            if (!m_pconn->execute(rsUser))
499
500
                m_poonn->getLastBrror(strError);
501
                Error(strError.c_str(), IID_IKCData, E_FAIL);
502
                throw E_FAIL;
503
504
505
            if (!m pconn->execute(rsBP))
506
507
                m_pconn+>gotlastError(strError);
500
                Error(strError.c_str(), IID_INCData, E_FAIL);
509
                throw E FAIL;
510
511
512
            If (!m_pconn->execute(raweight))
513
514
                m_pconn->getLastError(strError);
515
                Error(strError.c_str(), IID_TKCData, E_FAFL);
516
                throw E_FAIL;
517
518
519
            if (!m_pconn=>execute(rsTds))
520
521
                m pconn=>getLastError(strError);
522
                Error(strError.c str(), IID IKCData, E FAIL);
```

```
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                throw E FALLS
523
524
525
        catch(_dom_error & e)
526
            Error((BSTR) e.Description(), IID_IMCData, hr = e.Error());
527
528
529
        catch (HRESIMA hrError)
530
531
            hr = hrBrror;
532
533
        catch(...)
534
535
        ŧ
             hr = E_KALL
536
        ł
537
538
        if ([TransStarted)
539
540
             if (SUCCEEDED(hr))
541
                 m_pconn->commitTrans();
 542
 543
                 m_pconn=brollbackTrans();
 544
 545
 546
         return hr;
 547
 548 1
 544
 550 STDMETHODIMP CKCData::markDataUnexported()
 551 1
         HRESULT hr = S OK;
 552
         string strError;
 553
         bool fTransStarted = false:
 554
 555
          try
 556
  557
              Crs_kcuser rsUser;
  558
              Crs_blood_pressure rsBP;
  559
              Crs_weight rsWeight;
  560
              Crs_alternate_id rsIds;
  561
  562
              rsUser.setActiveCommand("markUnexported");
  563
              rsBP.setActiveCommand("markUnexported");
```

rsWeight.setActiveCommand("markUnexported");

if (!(fTransStarted = m_pconn->beginTrans()))

Error(strError.c_str(), IID_IKCOsts, E_FAIL);

Error(strError.c_str(), IID_IKCData, E_FAIL);

Error(strError.c_str(), IID_IKCData, E_FAIL);

rsids.setActiveCommand("markUnexported");

#_pconn->gertaettrior(effticot);

m_pconn->getLastError(strError);

m_poonn->getLastError(strError);

throw E_FAIL:

throw E_FAIL:

throw E_FAIL:

if (im_popun-besegnie(rsüser))

if (!m_pconn=>execute(rsRP))

564

565 566

567 568

569

579 571

572 573 574

575 576

577 578

579 580 581

582 583

584 585

586 587

588

1

ł

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  589
               if (im_pconn->execute(rsWeight))
  5.90
  591
                   m_pconn->qetLastError(strError);
  592
                  Error(strError.c_str(), IID_IKCData, E_FAIL);
  593
                   throw E_FAIL;
  504
  595
  596
              if ('m_pconn->execute(rsIds))
  597
  599
                  m_pconn->getLastError(strError);
  599
                  Error(strBrror.c_str(), IID_IKCData, E_FAIL);
  600
                  throw E_FAIL;
  601
  602
  603
          catch (_com_error & e)
 604
              Error((ÉSTŘ) e.Description(), říd_řŘČData, hr = e.Error());
 ดีบีวี
 606
 607
          catch (HRESULT MEETEOF)
 608
 609
              hr = hrError;
 610
         }
 611
         catch(...)
 612
 613
             hr = E_FAIL;
 614
 615
 616
         if (fTransStarted)
 617
 519
             if (SUCCEEDED(hr))
 619
                 m_pconn->commitTrans();
 620
             else
 621
                 m_pconn->rollbackTrans();
 622
 623
 624
         return hr;
625 }
526
627 STDMETHODIMP CKCData::importLCUsers(VARIANT vFileName)
628 {
         HRESULT hr = S_OK;
629
630
63)
         try
632
633
             string strFileName - (char *) (_bstr_t) vFileName:
634
635
             CXmTDocument xdocLCUsers;
            if (!loadWmlFile(stoFileName.o.sto(), xdocLCUsers, false))
636
637
                 throw E FAIL;
638
639
            Camiblement ellable,
640
541
            if (xdocLCUsers.getItem("cpi_user", &elTable))
642
643
                xdocLCUsers.pushCurrent(&elTable);
504
                Crs_lifeclinic_users rsLCUsers;
€45
                if { | applyTable (xdocLCUsers, rsLCUsers, FLAG_INSERT | FLAG_UPDATE) }
ភូម៉ូភូ
                     throw E FAIL:
647
                xdocLCUsers.popCurrent();
648
649
650
        catch (_com_error & e)
551
            Error((ESTR) e.Description(), [10_1kCData, hr = e.Error());
65Z
653
        catch (HRESHDY hiteror)
654
```

```
655
        Ĭ
            hr = hrError;
656
657
        catch(...)
659
€59
        ţ
            hr = E_FAIL:
គីគីអ៊
661
        ŝ
662
        rething birs
663
664 ]
665
565
667 STDMETHODIMP CKCData::importData(VARIANT vFileName)
568 (
        HRESULT hr = S_OK;
669
670
        ury
671
             string strFileName = (char *) (_bstr_t) vFileName;
672
673
             CXmibocument docTrans;
614
             if (!loadXmlFile(strFileName.c str(), docTrans, true))
675
                 throw E_FAIL;
 676
677
             CXmlElement elTable;
 678
 679
             // apply id map to the database
 680
             if (docTrans.getItem("kc_id_map", &elTable))
 681
 682
             -
                 docTrans.pushCurrent(&elTable);
 683
                 Crs_alternate_id rsIdMap;
 694
                 if (!applyTable(docTrans, rsIdMap, FLAG_INSERT))
 €95
                      throw E FAIL:
 ភូគូភូ
                 docTrans.popCurrent();
 687
             ì
 688
 689
         1
         catch(_com_error & e)
 6.9.0
             Error((#STR) e.Description(), IID_IRCData, hr = e.Error());
 691
 őŸŹ
 693
         catch (HRESULT luError)
 694
 695
         1
             hr = hrError;
 696
 697
         }
 €98
         catch(...)
  594
              hr = E FAIL;
  700
          }
  701
  702
          return hr;
  703
  704 }
 706 STDMETHODIMP CKCData::checkKioskUserTD(VARIANT vKioskID, VARIANT *pviDExists)
  707 {
          HRESULT hr = S_OK;
  708
          bool fSuccess = false;
  709
  710
  711
          CLY
  712
          Ĺ
  713
              Crs_kcdata rs;
  714
              rs.SetActiveCommand("cmdCheckIDExists");
  715
              rs.setParameter("alternate_id", _variant_t(vKioskID));
  716
  717
               if (im_pconn->execute(ts))
  719
  719
                   string strError;
  720
```

```
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```

```
721
                  m pconn->getDastError(strError);
 7.2.2
                  Error(strError.c_str(), HID_IKCData, hr = E_EAIL);
 723
                  throw hr;
 724
              ì
 725
              if (!rs.isEmpty())
 726
 727
                  fSuccess = true;
 728
             else
 729
                  fSuccess - false;
 730
 731
         catch(_com_error & e)
 732
733
             bast t barrattot = e.(leagniotion():
Error((char *) batrError, IID_IKCData, hr = e.Error());
734
735
736
737
         catch (HRESULT hrerror)
738
739
             he = heEccue;
740
741
         catch(...)
742
743
             hr = E FAIL;
744
745
         _variant_t vRetVal = fSuccess;
*pvtDExists = vBetval;
746
747
749
         return hr;
743
750
751
752 bool CKCDala::applyTable(CKmlDocument & xdoc, CSdoRecordset & rs, unsigned short
         fUpdateFlags)
753 (
754
         CXmlElement elTable;
755
         CXmlElement elRow;
756
         xdoc.getCurrent(&elTable);
757
         bool fRowFound = elTable.getFirst(&elRow);
758
         while (fRowFound)
759
760
             // check if record exists
761
             xdoc.pushCurrent(&elRow);
762
             rs.setActiveCommand(*applyExists*);
763
             rs.getActiveCommand()->clearParms();
764
             rs.getActiveCommand()=>setParmsOnly(xdog);
765
             xdoc.popCurrent();
766
             if (!m_pconn=>execute(rs))
767
             ŧ
768
                 string strError;
769
                 m_pconn->getLastError(strError);
770
                 Error(strError.c_str(), IID_IKCData, E_FAIL);
771
                 return false;
7.72
773
            bool fExists = !rs.isEmpty();
774
            is.cluse():
175
776
            // if row doesn't exist and fInserts true then add it
777
            if (![Exists && (fUpdateFlags & FLAG_INSERT))
778
779
                xdoc.pushCurrent(&elRow);
760
                rs.setActiveCommand("applyInsert");
                rs.getActiveCommand()->clearParms();
781
782
                rs.getActiveCommand()->setParmsOnly(xdoc);
783
                xdoc.popCurrent();
784
                if (!m_pconn->execute(rs))
785
```

```
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```

```
786
                     string strError;
787
                     m pconn->getLastError(strError);
788
                     Error (strError.o.str(), TID_IKCData, E'FATL);
789
                     return false;
790
791
            į
792
793
            // if row exists and fUpdates true then update it
744
            if (fexists se (fundaterlans e russ_uruste))
795
            1
7.96
                xdoc.pushCurrent(&elRow);
797
                rs.setActiveCommand("applyUpdate");
798
                rs.getActiveCommand()->clearParms();
799
                xs.getActiveCommand()->setParmsOnly(xdoc);
800
                xdoc.popCurrent();
801
                if (!m_pconn=>execute(rs))
902
                {
803
                     string strError;
804
                    m_pconn->getLastError(strError);
805
                    Error(strError.c_str(), IID_IKCData, E_FAIL);
805
                     return falsė:
807
808
809
810
            fRowFound = elTable.getNext(&elRow);
811
812
813
        return true;
814 }
815
816 bool CKCData::loadMmlFile { LPCSTR pszFileName, CKmlPocument & xdocResult, bool
        fEncrypted)
817 (
818
        bool fSuccess = true;
819
820
        stringstream strmError;
821
        HRESULT hr = S OK;
822
823
        ETV
924
        į
825
            strmError << "CKCData::loadXmlFile():";</pre>
826
827
            // open import file name
838
            FILE * pstream = fopen(psaFileName, "rb");
629
            if (pstream -- NULL)
030
831
                strmError << "Unable to open file [" << pszFileName << "].";
832
                Error(strmError.str().c_str(), IID_IKCData, E_FAIL);
833
                throw E_EALL:
834
235
836
            // get the size of the file
937
            fseek (pstream, 0, SEEK END);
838
            long lFileSize = ftell(pstream);
PFR
            fseek (pstream, 0, SEEK_SET);
840
941
            // allocate file buffer
            unsigned char * pBuff = new unsigned char [IFileSize + 1];
842
843
            if (pBuff == NULL)
844
            1
                strmmercor << "unable to allocate file buffer, out of memory;":
845
846
                Error(strmError.str().c_str(), IID_IKCData, E_FAIL);
847
                throw E FAIL:
040
849
            pBuff[lFileSize] - 0;
850
```

```
// read the import file
854
            long lBytesRead = fread(pBuff, 1, lFileSize, pstream);
852
            it (IBytesRead != IFilesize)
853
                 strmError << "CKCData::importData() failed. Unable to read file [";</pre>
954
855
                 strmError << pszfileName << "].";
                 Error(strmError.str().c_str(), TID_IKCData, E_FAIL);
856
857
                 throw E_FAIL;
858
859
860
            // decrypt the file to xml
861
            string strXmlData;
862
             if (fEncrypted)
863
864
                 CEncryptor encrypt;
                 encrypt.Decrypt((LPCSTR) pButt, NULL, strXmlData);
865
866
867
             else
9.68
                 strXmlData = (const char *) pBuff;
គុំភ្នំង
870
             delete [] pBuff:
871
872
             // parse the xml
873
             xdocResult.loadDocument(strXmlData.c_str());
874
             if {!xdocResult.isReady()}
 975
             ŧ
 876
                  string strearsemrror;
 £77
                  xdocResult.getParserError(strParseError);
                  strmError << "Unable to parse import file (" << pszFileName << "). Error →
 878
 879
          (";
                  strmError << strParseError << "].";
Error(SimmError.Sir().o_sir(), ITD_IKCData, E_FATE);
 8.8.0
 881
                  throw E_FAIL;
 882
             }
 883
 884
         catch(_com_error & e)
 885
              Surrow((SSTR) c.Deposiption(), Fin_imcData, br = c.Errow());
 RAG
 007
              fSuccess = false;
 999
 AA4
          catch (HRESULT hrError)
 890
 891
              he = henceges
  847
              fSuccess = false;
  893
  894
          catch(...)
  895
  896
          ł
              hr = E FAIL;
  Ã97
              fSuccess = false:
  898
  899
  900
          return fSuccess:
  901
  902 }
  993
  904
```

```
c:\Documents and Settings\Billy\My ...\LCServices\KCData\CoWeightReading.cpp
  1 // CoWeightReading.cpp : Implementation of CWeightReading
  2 #include "stdafx.h"
  3 #include "KCData.h"
  4. Winclude "CoMbightRoading.h"
  5 Winclude "rs_kcdata.h"
  8 // CWeightReading
 10 STDMETHODIMP CWeightReading::InterfaceSupportsErrorInfo(REFIID riid)
 11 (
 12
       static const IID* arr[] =
 13
 1 4
           &TID IWeightReading
 15
       1:
       for (int i=0: i < sizeof(arr) / sizeof(arr[0]); <math>i++)
 16
 17
 18
           if {InlineIsEqualGUID{*arr{i}, riid}}
 19
               return S_OK:
 Źΰ
 21
       return S_FALSE;
 22 1
 23
24 HRESULT CWeightReading::FinalConstruct()
 25 ( .
26
       m_vKioskUserID.vt = VT NULL;
27
       m_vWeight.vt = VT NULL;
28
       m_vReadingDate.vt = VT NULL;
29
30
       return 8 UK;
3.1
32
33 void CWeightReading::FinalRelease()
34 {
35
       return:
36 }
37
38
39 STDMETHODIMP CWeightReading::get_Weight(VARIANT *pVal)
40 (
41
       variant_t vVal(*pVal, false);
       vVal = m_vWeight;
*pval = vvai.uetach();
42
43
       return S_OK:
44
45 1
46
47 STDMETHODIMP CWeightReading::put_Weight(VARIANT newVal)
48 {
49
      m_vWeight = newVal;
50
      return S_OK;
51. }
52
53 STOMETHODIMP CWeightReading::gec_KioskUserID(VARIANT *pVal)
54 {
55
       variant t vVal(*pVal, false);
56
      AAST = # ARTOSKILSSETTS
57
      *pVal = vVal.Detach();
58
      return S_OK;
59 F
60
61 STOMMTHODIMP CWeightReading::get_ReadingDate(VARIANT 'pVal)
62 {
63
       variant_t vVal(*pVal, false);
64
      *pVal = vVal.Detach();
65
```

દદ

return S OK;

```
c:\Documents and Settings\Billy\My ...\LCServices\KCData\CoWeightReading.cpp
```

```
67 }
68
69 STDMETHODIMP CWeightReading::put_ReadingDate(VARIANT newVal)
70 {
71
      m_vReadingDate = newVal;
72
      return S_OK;
73 }
74
76 // internal C++ interface
77
78 bool CWaightReading::load(CCdcRecordset & rs)
79 (
됐다
      m_vweight = rs.getField("weight");
81
      m_vReadingDate = rs.getField("reading_dt");
m_vKioskUserID = rs.getField("kiosk_user_id");
82
яз
      return true;
84 }
85
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
1 // LCKioskServer.cpp : Implementation of WinMain
 2
 3
 4 // Note: Proxy/Stub Information
 5 //
         To build a separate proxy/stub DLL,
 5 11
          run nmake -f LCKioskServerps.mk in the project directory.
 8 #include "stdafx.h"
 9 #include "resource.h"
10 #include <initguid.h>
11 #include "threadMain.h"
12 #include "LCKioskServer.h"
13 #include "registryKServer.h"
14
15 #include "LCKioskServer i.c"
16
17
18 #include <stdio.h>
19
21 // MFC support
22 UkioskServerapp _theapp;
23
25 // ATL support
26 CServiceModule Module;
29 //Global decalrations
                 _logEvents("Kiosk Server");
30 CLogNTEvents
                  logFile("c:\\LCKioskServer.log");
31 CLogFile
32 CLogDebug
                  logDebug;
                 logAll;
33 CLogMulti
34
35 BEGIN OBJECT MAP (ObjectMap)
36 END_OBJECT_MAP()
37
38
39 LPCTSTR FindOneOf (LPCTSTR p1, LPCTSTR p2)-
40 (
41
      while (pl != NULL && *pl != NULL)
42
43
          LPCTSTR p = p2;
44
          while (p != WULL && *p != NULL)
45
46
             if (*p1 == *p)
47
                 return CharNext(pl);
48
             p = CharNext(p);
49
         pl = CharNext(pl);
50
51
52
      return NULL;
53 }
54
55 // Although some of these functions are big they are declared inline since they are
      only used once
57 inline HRESULT CServiceModule::RegisterServer(BOOL bRegTypeLib, BOOL bService)
58 (
59
      HRESULT hr = CoInitialize(NULL);
60
      if (FAILED(hr))
61
         return hr;
62
63
      // Remove any previous service since it may point to
€4
      // the incorrect file
65
      Uninstall();
```

```
66
 67
        // Add service entries
        UpdateRegistryFromResource(IDR_LCKioskServer, TRUE);
 68
 69
        // Adjust the AppID for Local Server or Service
 70
 71
        CRegKey keyAppiD;
 72
        LONG lRes = keyAppID.Open(HKEY_CLASSES_ROOT, _T("AppID"), KEY_WRITE);
 73
        if (lRes != ERROR_SUCCESS)
 74
            return 1Res:
 75
 76
        CRegKey key;
 77
        lRes = key.Open(keyAppID, _T("{BF823564-E93B-11D3-B88C-CC792E000000}"), KEY WRITE) ←
 78
        if (lRes != ERROR_SUCCESS)
 79
            return LBes;
        key.DeleteValue(_T("LocalService"));
 90
 81
 82
        if (bService)
 83
            key.SetValue(_T("LCKioskServer"), _T("LocalService"));
 84
 85
            key.SetValue(_T("-Service"), _T("ServiceParameters"));
 86
            // Create service
 67
            Install():
 88
 89
 90
        // Add object entries
 91
        hr = CComModule::RegisterServer(bRegTypeLib);
 92
 93
        CoUminitialize();
 94
        return hr;
 95 }
 96
 97 inline HRESULT CServiceModule::UnregisterServer()
 98 {
 99
        HRESULT hr = CoInitialize(NULL);
190
        if (FAILED(hr))
101
            return hr;
102
103
        // Remove service entries
        UpdateRegistryFromResource(IDR_LCKioskServer, FALSE);
104
105
        // Remove service
106
        Uninstall();
107
        // Remove object entries
108
        CComModule::UnregisterServer(TRUE);
109
        CoUninitialize();
110
        return S OK;
111 }
112
113 inline void CServiceModule:: Init ( ATL OBJMAP ENTRY* p, HINSTANCE h, WINT
        nServiceNameID, const GUID* plibid)
114 (
115
        CComModule::Init(p, h, plibid);
116
        m_bService = TRUE;
117
118
        LoadString(h, nServiceNameID, m_szServiceName, sizeof(m_szServiceName) / sixeof 🕜
119
        (TCHAR));
120
121
        // set up the initial service status
122
        m_hServiceStatus = NULL:
        m_status.dwServiceType = SERVICE_WIN32_OWN_PROCESS;
123
134
        m_status.dwCurrentState = SERVICE_STOPPED;
125
        m_status.dwControlsAccepted = SERVICE_ACCEPT_STOP;
126
        m_status.dwWin32ExitCode = 0;
127
        m status.dwServiceSpecificExitCode - 0;
128
        m status.dwCheckPoint = 0;
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
129
        m_status.dwWaitHint = 0;
130 }
131
132 LONG CServiceModule::Unlock()
133 {
134
        LONG 1 = CComModule::Unlock();
135
        if (1 == 0 && !m_bService)
            PostThreadMessage(dwThreadID, WM_QUIT, D, D);
136
137
        return 1;
130 }
139
140 BOOL CServiceModule::IsInstalled()
141 (
142
        BOOL bResult = FALSE;
1.43
144
        SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER_ALL_ACCESS);
145
146
        if (hSCM != NULL)
147
            SC_HANDLE hService = ::OpenService(hSCM, m_szServiceName,
148
        SERVICE QUERY CONFIG);
            if (hService != NULL)
149
150
151
                bResult = TRUE;
152
                ::CloseServiceHandle(hService);
153
154
            :: CloseServiceHandle(hSCM);
1.55
155
        return bResult;
157 }
158
159 inline BOOL CServiceModule::Install()
160 (
161
        if (TsTnstalled())
162
            return TRUE;
163
154
        SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER_ALL_ACCESS):
165
        if (hSCM == NULL)
166
167
            MessageBox(NULL, _T("Couldn't open service manager"), m szServiceName, MB OK);
168
            return FALSE:
169
170
171
        // Get the executable file path
172
        TCHAR szFilePath[ MAX PATH];
173
        ::GetModuleFileName(NULL, szFilePath, MAX PATH);
174
175
        SC_HANDLE hService = ::CreateService(
176
            hSCM, m_szScrviceName, m_szScrviceName,
177
            SERVICE ALL ACCESS, SERVICE WIN32 OWN PROCESS,
            SERVICE DEMAND START, SERVICE ERROR NORMAL,
178
179
            szFilePath, NULL, NULL, _T("RPCSS\0"), NULL, NULL);
180
191
        if (hService == NULL)
182
        ί
183
            ::CloseServiceHandle(hSCM);
184
           MessageBox(NULL, _T("Couldn't create service"), m szServiceName, MB OK);
185
           return FALSE;
        }
186
187
188
        ::CloseServiceHandle(hService);
189
        :: CloseServiceHandle (hSCM);
190
        return TRUE;
191
192
193 inline BOOL CServiceModule::Uninstall()
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
195
       if (!IsInstalled())
196
           return TRUE;
197
198
       SC_HANDLE hSCM = ::OpenSCManager(NULL, NULL, SC_MANAGER ALL ACCESS);
199
       if (hSCM == NULL)
200
201
202
          MessageBox(NULL, _T("Couldn't open service manager"), m_szServiceName, MB_OK);
203
          return FALSE;
204
       2
205
       SC_HANDLE hService - :: OpenService(hSCM, m_szServiceName, SERVICE_STOP | DELETE);
206
207
208
       if (hService == NULL)
209
210
           ::CloseServiceHandle(hSCM);
211
          MessageDox (NULL, _T("Couldn't open service"), m_ssServiceName, MD_OK);
212
          return FALSE;
213
       SERVICE STATUS status:
214
215
       ::ControlService(hService, SERVICE_CONTROL_STOP, &status);
216
217
       BOOL bDelete = ::DeleteService(hService);
218
       ::CloseServiceHandle(hService);
219
       ::CloseServiceHandle(hSCM);
220
221
       if (bDelete)
222
          return TRUE;
223
224
       MessageBox (NOLL, T("Service could not be deleted"), m_szServiceName, MB_OK);
225
       return FALSE;
226 }
227
229 // Logging functions
230 void CServiceModule::LogEvent(LPCTSTR pFormat, ...)
231 {
232
       TCHAK chMsg[2048];
233
       va list pArg;
234
235
       va_start(pArg, pFormat);
236
       votprintf(chMog, pFormat, pArg);
237
       va_end(pArg);
238
239
       CLogMagEvent(LCEV GENERIC, -1, chMag).Post(_logAll);
240 }
241
111111111
243 // Service startup and registration
244 inline void CServiceModule::Start()
245 {
246
       SERVICE_TABLE_ENTRY st[] =
247
248
           { m_szServiceName, _ServiceMain },
249
           { NULL, NULL }
250
       if (m bService && !::StartServiceCtrlDispatcher(st))
251
252
253
          m bService = FALSE;
254
255
       if (m bService == FALSE)
256
          Run();
257 )
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
5
```

```
258
259 inline void CServiceModule::ServiceMain(DWORD /* dwArgc */, LPTSTR* /* lpszArgv */)
260 (
        // Register the control request handler
261
       m_status.dwCurrentState = SERVICE_START_FENDING;
2.62
       m hservicestatus = RegisterServiceUtrlHandler(m_szserviceName, _Handler);
263
        if (m_hServiceStatus == NULL)
264
265
            CLogMsgEvent("Handler not installed").Post(_logAll);
266
267
266
        SetServiceStatus(SERVICE_START_PENDING);
269
270
        m_status.dwWin32ExitCode = S_OK;
271
        m status.dwCheckPoint = 0;
272
273
        m status.dwWaitHint = 0;
274
        // When the Run function returns, the service has stopped.
275
276
        Run ();
277
        SetServiceStatus(SERVICE_STOPPED);
278
279 F
280
281 inline void CServiceModule::Handler(DWORD dwopcode)
282 (
        switch (dwOpcode)
283
284
        case SERVICE CONTROL STOP:
285
            SetServiceStatus(SERVICE_STOP_PENDING);
286
            PostThreadMessage(dwThreadID, WM_QUIT, 0, 0);
287
288
        case SERVICE CONTROL_PAUSE:
289
290
            break;
        case SERVICE_CONTROL_CONTINUE:
201
292
            break;
        case SERVICE_CONTRUL_INTERROGATE:
293
294
            break;
        case SERVICE_CONTROL_SHUTDOWN:
295
296
            break;
297
        default:
            CLogMagEvent("Bad service request").Post(_logAll);
298
299
300 }
301
302 word WINAPI CServiceModule::_ServiceMain(DWORD dwArgc, LPTSTR* lpszArgv)
303 1
        Module.ServiceMain(dwArgc, lpszArgv)/
304
305 }
306 void WINAPI CServiceModule:: Handler(DWORD dwOpcode)
307 (
         Module.Handler(dwOpcode);
308
309 }
310
311 void CServiceModule::SetServiceStatus(DWORD dwState)
312 (
        m status.dwCurrentState = dwState;
313
         ::SetServiceStatus(m_hServiceStatus, &m_status);
314
315
3.1.6
317 void CServiceModule::Run()
318 (
         _Module.dwThreadID = GetCurrentThreadId();
319
 320
        HRESULT hr = CoInitializeEx(NULL, COINIT_MULTITHREADED);
321
 322
         if (FATTED(hr))
323
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
324
           CLogMsgEvent msg(LCEV_GENERIC, SVRTY ERROR);
           msg << "CoInitializeEx() failed. Error = [0x" << std::bex << hr << "]";
325
326
           mog.Post(_logAll);
327
           return;
328
       }
324
330
        // This provides a NULL DACL which will allow access to everyone.
331
       CSecurityDescriptor sd;
332
        sd.InitializeFromThreadToken();
333
       hr = CoInitializeSecurity(sd, -1, NULL, NULL,
334
           RPC_C_AUTHN_LEVEL_PKT, RPC_C_IMP_LEVEL_IMPERSONATE, NULL, EOAC_NONE, NULL);
335
        _ASSERTE(SUCCEEDED(hr));
336
       hr = _Module.RegisterClassObjects(CLSCTX_LOCAL_SERVER | CLSCTX_REMOTE_SERVER,
337
       RESCLS MULTIPLEUSE):
338
       _ASSERTE(SUCCEEDED(hr));
339
340
        // MFC support
341
342
       if (theApp_InitApplication() == FALSE)
343
344
           CLogMsgEvent msg(LCEV_GENERIC, SVRTY ERROR);
           msg << "_theApp.InitApplication() failed";</pre>
345
           msg.Post(_logAll);
346
347
           return;
348
349
35/9
       if (_theApp.InitInstance() == FALSE)
351
352
           CLogMsgEvent msg(LCEV_GENERIC, SVRTY_ERROR);
           msg << "_theApp.InitInstance() failed";</pre>
353
354
           msg.Post( logAll);
355
           _theApp.ExitInstance();
356
           return;
357
358
359
       // end MFC support
360
       361
362
363
       ChogMsgEvent("Service started").Post(_logAil);
364
       if (m bService)
365
           SetServiceStatus(SERVICE RUNNING);
366
367
       _theApp.Run();
368
       CLogMsgEvent("Service stopped").Post(_logAll);
369
370
371
       _Module.RevokeClassObjects();
372
373
       CoUninitialize();
374 }
375
377 11
378 extern "C" int WINAPI _tWinMain(HINSTANCE hInstance, HINSTANCE hPrevInstance, LPTSTR &
       lpCmdLine.
379
                                 int nShowCmd)
380 (
361
        ioyAll.Addiboy(a_logEvents);
       logDebug.Enabled(false);
382
       _logAll.AddLog(&_logFile);
383
384
385 #ifdef
          DEBUG
386
        logEvents.EnableTranslation(true);
```

logDebug.Enabled(true);

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\LCKioskServer.cpp
```

```
388
         logAll.AddLog(&_logDebug);
389 #endif
390
        lpCmdLine = GetCommandLine(); //this line necessary for _ATL_MIN_CRT
391
392
        _Module.Init(UbjectMap, hInstance, IDS_SERVICENAME, WLIBID LCKIUSKSERVERLID);
3.93
        Module.m bService - TRUE;
394
395
        TCHAR\ szTokens[] = T("-/");
396
        LPCTSTR lpszToken = FindOneOf(lpCmdLine, szTokens);
397
398
        while (lpszToken != NULL)
399
400
            if (lstrcmpi(lpszToken, _T("UnregServer"))==0)
401
                return _Module.UnregisterServer();
4.02
403
            // Register as Local Server
404
            if (lstrcmpi(lpszToken, _T("RegServer")) == 0)
405
                return Module.RegisterServer(TRUE, FALSE);
406
407
            // Register as Service
408
            if (lstrcmpi(lpszToken, T("Service"))==0)
409
                return Module.RegisterServer(TRUE, TRUE);
410
            // Initialize Configuration Registry Entries
Gii
412
            // Initialize Configuration Registry Entries
413
            if (lstrcmpi(lps2Token, _T("InitReg"))==0)
414
            {
415
                CRegistryKServer reg;
416
                reg.buildInitial();
417
                return 0;
418
419
420
            lpszToken = FindOneOf(lpszToken, szTokens);
421
422
423
        // Are we Service or Local Server
424
        CRegKey keyAppID;
425
        LONG 1Res = keyAppID.Open(HKEY_CLASSES ROOT, T("AppID"), KEY READ);
        if (lRes != ERROR_SUCCESS)
426
427
            return 1Res;
428
429
        CRegKey key;
        lRes = key.Open(keyAppID, _T("(BF823564-E93B-11D3-B88C-CC792E000000)"), KEY_READ);
430
431
        if (lRes != ERROR SUCCESS)
432
            return lRes;
433
434
        TCHAR szValuel_MAX_PATH];
435
        DWORD dwLen = MAX PATH;
436
        1Res = key.QueryValue(szValue, _T("LocalService"), &dwLen);
437
438
        Module.m_bService = FALSE;
439
        If (lRes == ERROR_SUCCESS)
            _Module.m_bService = TRUE;
440
441
442
        // AFX internal initialization
443
        if (!AfxWinInit(hInstance, hPrevInstance, lpCmdLine, nShowCmd))
444
           CLogMsgEvent (LCEV_GENERIC, SVRTY_ERRUR, "AfxWinInit failed.").Fost(_logAll);
445
        else
446
            Module.Start();
447
448
        // When we get here, the service has been stopped
449
        return _Module.m_status.dwWin32ExitCode;
450 }
451
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
```

```
1 // threadReceiver.cpp : implementation file
2 //
4 #include "stdafx.h"
5 #include "LCKioskServer.h"
# #include "threadkeceiver.h"
7 #include "filenameDelimited.h"
8 #include "threadMain.h"
9 #include "registryKServer.h"
10 #include "nmlKioskCmds.h"
11 #include "Encryptor.h"
12 #include "exports.h"
13 #include "brokerWrap.h"
14
15
16 #ifdef _DEBUG
17 #define new DEBUG NEW
19 #undef THIS_FILE
19 static char THIS_FILE() - __FILE__;
20 #endif
21
23 // CThreadReceiver
25 IMPLEMENT DYNCREATE (CThreadReceiver, CThreadServer)
26
27 CThreadReceiver::CThreadReceiver()
28 [
      useTimers(m_pnTimers, TIMER_MAX):
29
30 }
31
32 CThreadReceiver::~CThreadReceiver()
33 {
34 }
35
36 BOOL CThreadReceiver::InitInstance()
37 £
38
      if (CThreadServer::InitInstance() == FALSE)
39
          return FALSE:
40
41
      m fMaintenanceDone = false;
      return TRUE:
42
43 }
4.4
45 int CThreadReceiver::ExitInstance()
46 {
      // TODO: perform any per-thread cleanup here
47
      return CThreadServer::ExitInstance();
48
49 1
50
51 BEGIN MESSAGE MAP(CThreadReceiver, CThreadServer)
      //((AFX_MSG_MAP(CThreadReceiver)
5.2
                                           and we consequent was a few .
53
54
      //) ) AFX MSG MAP
      ON THREAD MESSAGE (WMUSER START, onStart)
55
56 END MESSAGE MAP()
57
59 // CThreadReceiver message handlers
60
61 LRESULT CThreadReceiver::onStart(WPARAM wParam, LPARAM 1Param)
62 (
      CThreadServer::onStart(wParam, 1Param);
63
      setTimer (TIMER RECEIVE, 2000);
64
€5
      // todo: testing
ກົວ
```

```
C:\Documents and Settings\Billy\My ...\LCKioskServer\threadReceiver.cpp
```

```
setTimer (TIMER_CHECK_TIME, 1000);
67
       //setTimer(TIMER_CHECK_TIME, INTERVAL_CHECK_TIME);
68
€9
       setTimer(TIMER_MOVE_FILES, INTERVAL_TIMER_MOVE_FILES);
70
71
72
       return FALSE;
73 }
74
75 void CThreadReceiver::onTimerIndex(int nIdx)
7€ {
       killTimer(nIdx);
77
78
79
       SYSTEMTIME st:
       GetLocalTime(&st);
80
       SystemTimeToVariantTime(&st, &m_dateNow);
8.1
32
83
       switch (nIdx)
84
       case TIMER RECEIVE:
85
           onTimerReceiveFiles();
86
97
           break:
       case TIMER CHECK TIME:
88
           onTimerCheckTime();
89
           break:
90
       case TIMER_MOVE_FILES:
 91
           onTimerMoveFiles();
 92
 93
           break;
94
       default:
           break:
 95
 96
 97
        return;
 98
 99 }
100
101 void CThreadReceiver::onTimerCheckTime()
102 (
        SYSTEMTIME st;
103
        GetLocalTime(&st);
104
        COleDateTime odtNow:
105
        odtNow.SetTime(st.wHour, st.wMinute, st.wSecond);
106
103
        COleDateTimeSpan odtsNow - odtNow - _theApp.m_pregistry->m_odtEndOfDay/
108
        int nMinutes = odtsNow.GetTotalMinutes();
109
        if (nMinutes > 0 && nMinutes < 60)
110
111
        ĺ
            if (!m_fMaintenanceDone)
112
113
                 m_fMaintenanceDone = true;
114
                 deleteBackupFiles();
115
                 checkLateKiosks():
116
                 buildExports();
117
                 buildUserExports();
118
119
            }
129
        )
        else
121
            m_fMaintenanceDone = false;
122
123
         setTimer(TIMER_CHECK_TIME, INTERVAL_CHECK_TIME);
124
1.25 }
126
127 void CThreadReceiver::onTimerReceiveFiles()
126 (
         CFileNameKiosk fnKiosk;
129
        CFileFind ffLocal;
130
         string strSearchFileName;
131
```

CString cstrFileName;

```
3
```

```
133
        string strKioskId;
134
        string strWork;
135
        string strBackupFile;
136
        CFile file;
        string strXmlCmd;
137
138
        string strXmlResult;
139
        string strXmlError;
140
141
        // set up wild card search name
        fnKiosk.set("direction", "U");
fnKiosk.set("kiosk_id", "*");
fnKiosk.set("date", "*");
142
143
144
145
        fnKiosk.setExtension("XML");
        fnKiosk.getFullName(strSearchFileName);
146
147
148
        // set current directory to the xfer directory
149
        _chdrive(_theApp.m_pregistry->m_lKioskDrive);
150
        string strDirectory = _theApp.m_pregistry->m_strKioskDirectory;
        strDirectory += "Xfer\sqrt{\ }";
151
        _chdir(strDirectory.c_str());
152
153
        // look at each file in the xfer directory that matches wild card search
154
        bool ffileFound = ffLocal.FindFile(strSearchFileName.c_str()) != FALSE;
155
156
        while (fFileFound)
1.57
150
            fFileFound = ffLocal.FindNextFile() != FALSE;
            cstrFileName = ffLocal.GetFileName();
159
160
161
            // parse filename and get out the kiosk id
162
            fnKiosk.setFullName(cstrFileName);
            fnKiosk.get("kiosk_id", strWork);
1€3
164
            strKioskId = strWork.substr(1, strWork.size() - 1); // drop K prefix
165
            // file errors can occur if we hit a file that is being xmitted, error is a
166
        warning
167
            CFileException exFile;
            if (file.Open(ostrFileName, CFile::modeRead | CFile::shareExclusive, &exFile) 🗸
168
        == FALSE)
169
            ŧ
170
                char pszError [256];
171
                *pszError = 0;
                exFile.GetErrorMessage((LPSTR) pszError, 255);
172
                CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
173
                msg << "CThreadReceiver unable to open transaction file {";
174
                msg << (const char *) cstrFileName << "] for storage. Error = [";
175
                msg << pszError << "]. Cause = [" << exFile.m_cause << "]";</pre>
176
177
                msg.Post(_logAll);
178
                continue;
179
180
161
            // read in the contents of the file. error is a warning.
            long lFileSize = file.SetLength();
192
            unsigned char * pBuff = new unsigned char [lFileSize + 1];
183
            pBuff[lFileSize] = 0;
184
185
            if (file.Read(pBuff, lFileSize) != lFileSize)
186
                CLogMagEvent mag(LCEV_GENERIC, SVRTY_WARNING);
187
                mag << "GThreadReceiver unable to read transaction file (")
166
                msg << (const char *) cstrFileName << "] for storage.";
189
190
                msg.Post( logAll);
191
                file.Close();
192
                continue;
193
194
            file.Close();
195
196
            // build xml command
```

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```
4
```

```
Cxdoc_uptKioskTrans docXmlCmd;
197
            docXmlCmd.setItemText("kiosk id", strKioskId.c str());
docXmlCmd.setItemText("file_name", cstrFileName);
1.98
199
200
             // decrypt incomming data
201
             CEncryptor encrypt;
202
             string strTransXml;
203
             encrypt Decrypt ((LPCSTR) pBuff, NULL, strTransXml);
204
             delete [] pBuff;
205
206
             // parse incomming data
207
             CXmlDocument docXmlTrans(strTransXml.c_str());
208
             if (!docXmlTrans.isReady())
209
210
             1
                 string strError;
211
                 docXmlTrans.getParserError(strError);
212
213
                  // event log message
214
                 CLogMsgEvent msg (LCEV_GENERIC, SVRTY_WARNING);
215
                 msg << "CTbreadBeceiver unable to parse transaction file [":
                 mag << (const char *) cotrFileName << "]. MML Parper error = [";
216
217
                 msg << strError << ")";
218
                 msg.Post(_logAll);
219
 220
                  // alert personel message
221
                  stringstream strmError;
                  strmError << "The transaction file [" << (const char *) cstrFileName; strmError << "] could not be parsed. The error is [" << strError << "]. ";
 222
 223
                  strmmerror << "You are listed as support personel for this klosk [" <<
 224
 225
         strKioskId;
                  strmError << "]. Please investigate this problem ASAP.";
 226
 227
                  Cxdoc_setKloskAlert docAlert;
 228
                  CXmlElement elParm;
 229
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_kiosk_id);
 230
 231
                  elParm.setText(strKioskId.c str());
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_error_level);
 232
 233
                  elParm.setText(2);
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_subject);
 234
 235
                  elParm.setText("Kiosk transaction file parse error");
 236
                  docAlert.getItem("parm", &elParm, Cxdoc_setKioskAlert::PARM_body);
 237
                  elParm.setText(strmError.str().c_str());
 238
                  docAlert.getXML(strXmlCmd);
 239
 240
                  CBrokerWrap broker (m_spXmlCmds);
                  if (!broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
 241
 242
 243
                       msg.Clear();
 244
                       msg << "CThreadReceiver unable to issue Kiosk alert.";
 245
                       msq.Post(_logAll);
  246
 247
  248
                   continue;
  249
  250
  251
               CXmlElement elTrans;
  252
               CXmlElement elData;
  253
  254
               docXmlTrans.getRoot(&elTrans);
  255
               docXmlCmd.getItem("data", &elData);
  256
  257
               elDala.addChild(&elTrans);
  258
  259
               docXmlCmd.getXML(strXmlCmd);
  260
  261
```

```
// put it to the broker
262
            CBrokerWrap broker(m_spXmlCmds);
263
            if (!broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
264
265
                CLogMsgEvent msg (LCEV_SENERIC, SVRTY_WARNING);
266
                msg << "CThreadReceiver unable to store Kiosk transaction file [";
267
                msg << (const char *) cstrFileName << "].";
268
                msg.Post(_logAll);
269
                continue;
270
271
272
            // move to backup directory
273
            strBackupfile = "..\\Backup\\";
274
            strBackupFile += (donst char *) cstrFileName;
275
            if (rename(cstrFileName, strBackupFile.c_str()))
276
277
                 CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
278
                msg << "Unable to move file [" << (const char *) cstrFileName << ") to the
279
          ";
                 msg << "backup directory. errno = [" << errno << "]";</pre>
280
                 msg.Post( logAll);
281
282
283
284
        setTimer(TIMER_RECEIVE, _theApp.m_pregistry->m_lReceiveFreqMs);
285
296
287 }
288
289 void CThreadReceiver::onTimerMoveFiles()
290 (
        CFileFind ffLocal;
291
        string strWorkDir = _theApp.m_pregistry->m_strKioskDirectory + "Work\\";
string strXferDir = _theApp.m_pregistry->m_strKioskDirectory + "Xfer\\";
292
293
294
295
        string strSrcFile;
296
        string strDestFile;
297
        CString cstrFileName;
298
         // move files out to he xfer directory
299
         string strFileFind = strWorkDir + "*. +";
300
         BOOL fFileFound = ffLocal.FindFile(strFileFind.c_str());
301
        while (fFileFound)
302
303
             fFileFound = ffLocal.FindMextFile();
304
             if (ffLocal.IsDirectory())
305
                 continue:
306
             cstrFileName = ffLocal.GetFileName();
307
             strSrcFile = (LPCSTR) cstrFileName;
308
             strSrcFile.insert(0, strWorkDir);
309
             strDestFile = (LPCSTR) cstrFileName;
 310
             strDestFile.insert(0, strXferDir);
311
 312
             remove(strDestfile.c_str());
 313
             rename(strSrcFile.c_str(), strDestFile.c_str());
 314
 315
 316
         // remove files marked as retrieved
 317
         strFileFind = strXferDir + "+.*x";
 318
         fFileFound = ffLocal.FindFile(strFileFind.c_str());
 319
         while (ffilefound)
 320
 321
              fFileFound = ffLocal.FindNextFile();
 322
             if (ffLocal.IsDirectory())
 323
 324
                  continue;
             cotrFileName = ffLocal.GetFilePath();
 325
              remove (cstrFileName);
 326
```

```
327
328
        setTimer(TIMER_MOVE_FILES, INTERVAL_TIMER_MOVE_FILES);
329
330
331
        return;
332 }
333
334 bool CThreadReceiver::deleteBackupFiles()
335 {
        bool fSuccess = true;
336
337
338
        // delete backup file on disk
339
        string strFileName;
        string strSearchName("*.*");
340
        string strBackupDirectory = _theApp.m_pregistry->m_strKioskDirectory;
341
        strBackupDirectory += "Backup\\";
342
        strSearchName.insert(0, strBackupDirectory);
343
344
        // get current time - retentions days
345
346
        SYSTEMTIME stime;
347
        GetLocalTime(&stime);
348
        COleDateTime odtKeep(stime);
        COleDateTimeSpan spanTime(_theApp.m_pregistry->m_lBackupRetentionDays, 0, 0, 0);
349
        odlKeep -= spanTime;
350
351
        // delete all file whose time is less than current time minus retention days
352
        CFileFind ffLocal;
353
        bool fFileFound = ffLocal.FindFile(strSearchName.c_str()) != FALSE;
354
        while (fFileFound)
355
356
            fFileFound = ffbocal.FindNextFile() != FALSE;
35?
            if (ffLocal.IsDots())
35€
359
                continue;
360
            FILETIME
361
                         ftime:
            ffLocal.GetCreationTime(&ftime);
362
            COleDateTime odtFile(ftime);
363
            if (odtFile < odtKeep)
364
365
                CString cstrFileName = ffLocal.GetFilePath();
366
367
                remove(cstrFileName);
368
            }
369
        }
370
37i
        // remove old daily transactions from database
        odtKeep.SetDate(stime.wYear, stime.wMonth, stime.wDay);
372
        spanTime.SetDateTimeSpan(_theApp.m_pregistry->m_lTransRetentionDays, 0, 0, 0);
373
        odtkeep -= spanTime;
374
375
376
        CXmlElement elDate;
        Cxdoc_deleteKioskTrans xdoc_deleteKioskTrans;
377
        xdoc deleteKioskTrans.getItem("parm", &elDate);
378
        elDate.setText((LPCSTR) odtKeep.Format("%Y-%m-%d"));
379
380
        string strXmlCmd;
        string strXmlResult;
381
        string strXmlError;
382
        xdoc deleteKioskTrans.getXML(strXmlCmd);
383
        CBrokerWrap broker (m_spXmlCmds);
384
        fSuccess = broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError);
385
386
387
        return fSuccess;
3.9.9. }
389
390 bool CThreadReceiver::checkLateKiosks()
391 (
                                 docCmd;
392
        Cxdoc checkLateKiosks
```

```
393
        CXmlElement elParm;
394
395
        docCmd.getItem("parm", &elParm);
396
        elParm.setText(_theApp.m_pregistry->m_lHoursKioskAbsent);
397
398
399
        string strXmlCmd;
        string strXmlResult;
400
401
        string strXmlError;
402
        docCmd.getXML(strXmlCmd);
403
404
        CBrokerWrap broker (m spXmlCmds);
405
        if (!broker.execXml(strXmlCmd.c_str(), strXmlResult, strXmlError))
406
407
        {
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
408
            msg << "CThreadReceiver unable to checkLateKiosks().";
409
410
            msg.Post(_logAll);
411
412
413
        return true;
414 }
415
416 bool CThreadReceiver::buildExports()
417 (
        CExportKiosks ek(m_spXmlCmds);
418
        string strDir = _theApp.m_pregistry->m_strKioskDirectory + "Xfer\\";
419
        ek.setFinalDir(strDir.c_str());
420
        strDir = _theApp.m_pregistry->m_strKioskDirectory + "Work\\Kiosks\\";
421
        ek.setWorkDir(strDir.c_str());
422
        return ek.buildDailyExport();
423
424 }
425
426 bool CThreadReceiver::buildHserExports()
427 (
        string strDir;
428
429
430
        CExportLCUsers eu(m_spXmlCmds);
        strDir = _theApp.m_pregistry->m_strKioskDirectory + "Work\\";
 431
        eu.setFinalDir(strDir.c_str());
432
433
        strDir += "LCUsers\\";
        eu.setWorkDir(strDir.c_str());
434
        eu.setPacketSize(_theApp.m_pregistry->m_lLCUsersPerPacket);
 435
 436
 437
         // build the big kahonee
         COleDateTime odt;
 438
        odt.SetDate(1990, 12, 29);
 439
         eu.buildDailyExport((DATE) odt, NULL, true);
 440
 441
         // build the daily
 442
         odt = COleDateTime::GetCurrentTime();
 443
         eu.buildDailyExport((DATE) odt, NULL, false);
 444
 445
 446
         return true;
 447 ]
 448
 449
```

```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
i // wndMonitorISP.cpp : implementation file
2 //
4 #include "stdafx.h"
5 #include "lckfoskclient.h"
& #include "wndMonitorISF.h"
7 #include "filenameDelimited.h"
8 Minclude "zipUtil.h"
9 #include "Encryptor.h"
1.0.
11 #ifdef _DEBUG
12 #define new DEBUG_NEW
13 #undef THIS_FILE
14 static char THIS_FILE() = __FILE__;
15 #endif
15
17 /*
18
      This window acts like the following state machine. A state change results in
19
      either a posted message are a set timer whose event will process that state.
20
21
                                  1
                                       condition
                   new state
22
   23
24 ST_CHECKTIME | ST_CHECKTIME | when it is not time to do anything | ST_CONNECTING | when it is time to process
26
27 ST_CONNECTING | ST_RETRY | when the connect fails
                | ST_EXCHANGE | when the connect succeeds
| ST_CHECKTIME | when connect fails and retries are exhausted
39.
29
30
31 ST_RETRY | ST_CONNECTING
   ______
                | ST_APPLY | when the data exchange succeeds
| ST_RETRY | when the data exchange fails
| ST_CHECKTIME | when the data exchange fails and retries are
32
33 ST_EXCHANGE
34
35
   _____
      exhausted
               | ST_CHECKTIME | when apply updates succeeds | ST_CHECKTIME | when apply updates fails
37
38
39 */
 40
 41 UINT CWndMonitorISP::m_nRasDia1Msg = 0;
 44 // CWndMonitorISP
 45
 46 CWndMonitorISP::CWndMonitorISP()
 47 (
      m_fUseRas = true;
 ű8
      m_pdialer - NULL;
 43
      m_pdialerRas = NULL;
 50
      m pdialerWinInet = NULL;
 51
      m_fExchangeDone = false;
 52
      .m. fMaintenanceDone = false:
 5.3
 54 }
 55
 56 CWndMonitorISP::~CWndMonitorISP()
 57 {
       if (m_pdialer != NULL)
 58
          delete m_pdialer;
 59
 60 }
 61
 62 BEGIN_MESSAGE_MAP(CWndMonitorISP, UWndMonitor)
      /7((AFX_MSG_MAP(CWndMonitorISP)
 63
       1 48 THE
36 86 HIGH
```

```
66
        //) JAFX MSG MAP
        ON_MESSAGE(WMUSER_CONNECTED, onDialConnect)
 67
        ON MESSAGE (WMUSER_CHECKTIME, onTimerCheckTime)
ON MESSAGE (WMUSER_EXCHANGE, onExchange)
 58
 69
        ON MESSAGE (WMUSER APPLY, onApply)
 70
 71
        ON MESSAGE (WMUSER CONNECT, onTryConnect)
        ON_REGISTERED_MESSAGE(m_nRasDialMsg, onRasDialReport)
 73 END_MESSAGE_MAP()
 74
 75
 77 // CWndMonitorISP message handlers
 79 int CWndMonitorISP::OnCreate(LPCREATESTRUCT lpCreateStruct)
 8.0. (
 61
        if (CWndMonitor::OnCreate(lpCreateStruct) -- -1)
 82
            return -1;
 83
 84
        buildDirectoryStructure();
 85
 86
        if (m filseRas)
 87
 88
           m pdialerRas = new CDialerRAS(m_registry.m_strPhoneBookEntry.c_str());
 89
           m nRasDialMsg = m pdialerRas->getNotificationMessId();
           m_pdialer = m_pdialerRas;
 91
        1
 92
        else
 93
 94
            m ndialerWinTnet = new CDialerWinTnet();
 95
            m_pdialer = m_pdialerWinInet:
 9€
        1
 97
 93
       m_pdialer->m_hwndOwner = m_hWnd;
 99
100
        m_ePreviousState = ST_NONE;
101
        setState(ST CHECKTIME);
102
        PostMcsoage (VMUSER_CHECKTIME);
103
        return 0;
104
105
106 void CWndMonitorISP::OnTimer(UINT nIDEvent)
107 {
108
        KillTimer(nIDEvent);
109
110
        switch (mIDEvent)
111
112
        case TIMER CHECKTIME:
           onTimerCheckTime(0, 0);
113
114
           break;
        case TIMER_RETRY:
115
116
           onTimerRetry();
117
           break;
118
        default:
119
           break;
120
121 }
122
123 LRESULT CWndMonitorISP::onTimerCheckTime(WPARAM wParam, LPARAM 1Param)
124 (
125
        COleDateTime odtNow = COleDateTime::GetCurrentTime();
126
127
        // check to see if it is end of day. If it is, then do maintenance
        COleDateTimeSpan odtsNow = odtNow - m_registry.m_odtEndOfDay;
12R
129
        int nMinutes = odtsNow.GetTotalMinutes();
130
        if (nMinutes > 0 && nMinutes < 60)
```

```
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132
            if (!m_fMaintenanceDone)
133
134
            1
                deleteOldBackups();
135
                cleanChartersDirectory();
136
                return true;
137
138
139
        ì
140
        else
            m_fMaintenanceDone = false;
141
147
        // check to see if we should do file exchange
143
        odtsNow = odtNow - m_registry.m_odtTimeOfExchange;
144
        nMinutes = odtsNow.GetTotalMinutes();
145
146
        if (nMinutes >= 0)
147
148
        1
149
            // start the exchange
            if (m_registry.m_lConnectRetries)
150
                m_nRetryCount = m_registry.m_lConnectRetries;
151
            0150
152
                 m_nRetryCount = RETRY_FOREVER;
153
154
            setState(ST CONNECTING);
155
            PostMessage (WMUSER_CONNECT);
156
157
            // set up the next exchange time
158
            COleDateTimeSpan odtsMinutes(0, 0, m_registry.m_lExchangeFregMins, 0);
159
            m registry.m_odtTimeOfExchange = odtNow + odtsMinutes;
160
161
        }
162
        else
163
         1
             setState(ST CHECKTIME);
164
             SetTimer(TIMER_CHECKTIME, INTERVAL_CHECKTIME, NULL);
165
166
         )
1.67
 168
         return 0;
169 }
170
171 bool CWndMonitorISP::onTimerRetry()
172 (
         if (m nRetryCount > 0)
173
             m nRetryCount--;
 174
 175
         CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Retrying connect").Post(_logAll);
 176
 177
         setState(ST_CONNECTING);
 178
         PostMessage (WMUSER_CONNECT);
 179
 180
 181
         return true;
 182 )
 183
 184 LRESULT CWndMonitorISP::onTryConnect(WPARAM wParam, LPARAM 1Param)
 185 {
         if (m_registry.m_lNoDial != 0)
 186
 187
             setState (ST EXCHANGING);
 188
             PostMessage (WMUSER_EXCHANGE);
 189
 190
 191
             m_pdialer->connect();
 192
 193
         return 0;
 194
```

197 LRESULT CWndMonitorISP::onExchange(WPARAM wParam, LPARAM 1Param)[Claim 1b, 4a, 5a, 5b, 5c, 2]

195 }

```
7b, 9b, 10a]
198 (
        CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Exchanging files").Post(_logAll);
199
200
201
        bool fSuccess = exchangeFiles();
202
203
        m pdialer->disconnect();
204
205
        if (fSuccess)
205
207
            m_fMaintenanceDone - true;
208
            setState(ST APPLYING);
209
            PostMessage (WMU3ER_APPLY);
210
        }
211
        else
212
        {
213
            if (m_nRetryCount > 0 || m nRetryCount == RETRY FOREVER)
214
            ¥.
215
                setState(ST_RETRYING);
216
                SetTimer(TIMER_RETRY, m_registry.m_lRetryIntervalSecs * 1000, NULL);
217
            1
218
            else
219
220
                setState(ST CHECKTIME);
221
                SetTimer (TIMER CHECKTIME, INTERVAL CHECKTIME, 0);
222
            }
223
        1
224
        return fSuccess ? TRUE : FALSE;
225
226 }
227
228 LRESULT CWndMonitorISP::onRasDialReport(WPARAM wRasConnState, LPARAM dwError)
229 [
230
        // if doing async Ras, logNotification must be called to recieve WMUSER CONNECTED 🗸
        message
        m_pdialerRas->logNotification(wRasConnState, dwError);
231
232
        return OL;
233 }
234
235 LRESULT CWndMonitorISP::onDialConnect(WPARAM wParam, LPARAM dwError)
236 (
237
      . if (dwError)
238
        ŧ
239
           m pdialer->disconnect();
240
            if (m_nRetryCount > 0 || m_nRetryCount -- RETRY_FOREVER)
241
                setState(ST_RETRYING);
242
                SetTimer(TIMER_RETRY, m_registry.m_lRetryIntervalSecs * 1000, NULL);
243
244
245
            else
246
            1
247
                setState(ST CHECKTIME);
248
                SetTimer (TIMER CHECKTIME, INTERVAL CHECKTIME, 0);
249
            }
250
        }
251
        else
252
        1
            setState (ST_EXCHANGING);
253
254
            PostMessage (WMUSER EXCHANGE) ;
255
        -}
256
257
        return 0;
258 }
260 bool CWndMonitorISP:: funcSoxtPileName (string & str1, string & str2)
261 (
```

```
return strl.compare(str2) < 0;</pre>
262
263 1
264
265 bool CWndMonitorISP::applyLCUsersUpdates()[Claim 1f,1g]
266 (
        string strSearchName;
267
       .string strFileName;
268
        string strBackupName;
269
        CString cstrZipFileName;
270
        CString cstrXmlFileName;
271
272
        CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Applying LCUsers.").Post(_logAll);
273
274
        bool fSuccess = true;
275
276
277
        try
278
         ţ
             string strProcDir = m_strProcDir + "LCHsers\\";
279
280
             strSearchName = "D_LCUsers*.zip";
281
             strSearchName.insert(0, m_strProcDir);
282
283
             CFileFind ffZips;
284
             ROOL fzipFound = ffzips,FindFile(strSearchName.c_str());
285
             while (fZipFound)
 286
287
                 f2ipFound = ffZips.FindNextFile();
 288
                 cstrZipFileName = ffZips.GetFilePath();
 289
                 clearDirectory(strProcDir.c_str());
 290
                 m_zipper.unzipFile(cstrZipFileName, strProcDir.c_str());
 291
 292
 293
                  strSearchName = strProcDir + "*.xml";
 294
                 CFileFind ffXmls;
 295
                 BOOL fXmlFound = ffXmls.FindFile(strSearchName.c_str());
 296
                  while (fXmlFound)
 297
 298
                      fXmlFound = ffXmls.FindNextFile();
 299
                      cstrXmlFileName - ffXmls.GetFilePath();
 300
                      m_spKCData->importLCUsers(_variant_t(cstrXmlFileName));
 301
                      remove(cstrXmlFileName);
 302
 303
                  strBackupName = m_strBackupDir + (LPCSTR) ffZips.GetFileName();
 304
 305
                  rename(cstrZipFileName, strBackupName.c_str());
 306
 307
              }
 308
          catch ( com error & e)
 309
  310
              CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
  311
              msg << "Error during applyLCUsersUpdates(). Error = [";</pre>
  312
              msg.appendError(e);
  313
              msg << "].";
  314
              msg.Post(_logAll);
fSuccess = false;
  315
  316
  317
          catch (CException * pE)
  318
  319
              CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
  320
              char pszErrorMessage [256];
  321
              pE->GetErrorMessage(pszErrorMessage, 256);
              msgError << "Error during applyLCUsersUpdates(). Error = [" << pszErrorMessage*
  322
  323
              pE->Delete();
  324
              fSuccess = false;
  325
  326
```

```
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       catch(...)
327
           CLogMsgEvent (LCEV_GENERIC, SVRTY_WARNING, "Unknown exception during
328
329
       applyLCUsersUpdates().").Post(_logAll);
           fSuccess = false;
330
331
332
333
        return fSuccess;
334
335 }
336
337 bool CWndMonitorISP::applyAppUpdates().
338 {
                        strSearchName;
        string
339
                        strFileName;
        string
340
                        strBackupName;
        string
341
                        cstrFileName;
        CString
342
343
                      msgInfo(LCEV_GENERIC, SVRTY_INFO);
        CLogMsgEvent
 344
 345
        msgInfo << "Applying application updates.";
 346
        msgInfo.Post(_logAll);
 347
 348
        bool fSuccess - true;
 349
 350
 351
        cry
 352
            vector<string> collFileNamesAll;
 353
            vector<string> collFileNamesById;
 354
            355
 35-6
             // find application zip files
            inniniinimunimmunumunummunum
 357
            // build wild card file name for KALL search
 358
 359
             CFileNameKiosk fnKiosk;
 360
             fnKiosk.set("direction", "D");
fnKiosk.set("kiosk_id", "KALL");
 361
 362
             fnKiosk.set("date", "+");
 363
             fnKiosk.setExtension("zip");
 364
             fnKiosk.getFullName(strSearchName);
 365
             strSearchName.insert(0, m_strProcDir);
 366
  367
             // collect all KALL file name and sort them by date
  368
             CfileFind ffLocal;
             BOOL fFileFound = ffLocal.FindFile(strSearchName.c_str());
  369
  370
             while (fFileFound)
  371
  372
                 fFileFound = ffLocal.FindNextFile();
  373
                 cstrFileName = ffLocal.GetFileName();
                 cullFileNamesAll.push_back((const_char *) cstrFileName);
  374
  375
             sort(collFileNamesAll.begin(), collFileNamesAll.end(), _funcSortFileName);
  376
  377
  378
              // build wild card file name for K9999 search
              fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
  379
  380
              fnKiosk.getFullName(strSearchName);
  381
              strSearchName.insert(0, m_strProcDir);
  362
              // collect all K9999 file names and sort them by date
  ÉğĖ
              fFileFound = ffLocal.FindFile(strSearchName.c_str());
  384
  385
              while (ffileFound)
   386
              ţ
   387
                  fFileFound = ffLocal:FindNextFile();
   388
                  cstrFileName = ffLocal.GetFileName();
                  collFileNamesById.push_back((const char *) cstrFileName);
   389
   390
```

}

391

```
sort(collFileNamesById.begin(), collFileNamesById.end(), _funcSortFileName);
392
3.93
394
           // append K9999 filenames to the end of KALL filenames
3.95
           collFileNamesAll.insert(collFileNamesAll.end(), collFileNamesById.begin(),
       collFiloNamcsById.end());
396
397
           398
           // apply application zip files
399
           vector<string>::iterator it;
400
4U1
           for (it = collrileNamesAll.begin(); it != collrileNamesAll.end(); it++)
402
           ĺ
403
               strFileName = m strProcDir + *it:
404
               if (!m_zipper.unzipFile(strFileName.c_str(), m_registry.m_strAppDirectory.w
       c_str(),
405
                       CZipUtil::ZF_OverWrite | CZipUtil::ZF_UseDirectoryNames)}
406
407
                   CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
408
                   msgError << "Unable to apply [" << *it << "]";
409
                   msgError_Post(_logAll);
410
411
               else
412
413
                   msgInfo.clear();
414
                   msqInfo << "Applied update file [" << 'it << "]";</pre>
415
                   msgInfo.Post( logAll);
416
417
418
               strBackupName = m strBackupDir + *it;
419
               strFileName = m_strProcDir + *it;
420
               if (rename(strFileName.c str(), strBackupName.c str()))
421
422
                   CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
                   msgError << "Unable to move [" << *it << "] to the backup directory
423
       after applying.";
424
                   msgError << " errno - " << errno;
425
                   msgError.Post(_logAll);
4.2.6
427
           }
428
429
       catch (_com_error & e)
430
431
           CLogMsgEvent msg(LCEV GENERIC, SVRTY WARNING);
432
           msg << "Error during applyAppUpdates(). Error = {";</pre>
433
          msg.appendError(e);
msg << "}.";</pre>
434
435
           mag.Post(_logAll);
           fSuccess = false;
436
437
438
       catch (CException * pE)
439
440
           CLogMsgEvent msgError(LCEV GENERIC, SVRTY WARNING);
441
           char pszErrorMessage [256];
442
           pE->GetErrorMessage(pszErrorMessage, 256);
443
           msgError << "Error during applyAppUpdates(). Error = [" << pszErrorMessage << 🗸
444
           nE->Delete();
445
           fSuccess = false;
446
447
       catch(...)
448
449
           CLogMsgEvent (LCEV GENERIC, SVRTY WARNING, "Unknown exception during
       applyAppUpdates().").Post(_logAll);
450
           fSuccess = false;
451
```

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```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
```

```
453
        return fSuccess;
454 }
455
456 bool CWndMonitorISP::applyDBUpdates()
457 (
458
        string strSearchName;
        string strFileName;
459
460
        string strBackupName;
461
       CString cstrFileName;
462
463
        bool fSuccess - true;
464
       CLogMsgEvent(LCEV_GENERIC, SVRTY_INFO, "Applying database updates.").Post(_logAll) ←
465
466
467
        try
468
        í
469
            CFileNameKiosk fnKiosk;
            fnKiosk.set("direction", "D");
470
            fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
471
            fnKiosk.set("date", "+");
472
            fnKiosk.setExtension("xml");
473
            fnKiosk.getFullName(strSearchName);
474
475
            strSearchName.insert(0, m_strProcDir);
476
477
            CFileFind ffLocal;
478
            BOOL fFileFound - ffLocal.FindFile(strSearchName.c_str());
            while (fFileFound)
479
480
                fFileFound = ffLocal.FindNextFile();
481
                cstrFileName - ffLocal.GctFileName();
482
                strFileName = (LPCSTR) cstrFileName;
483
484
                strFileName.insert(0, m_strProcDir);
                m_spKCData->importData(_variant_t((LPCSTR) strFileName.c_str()));
485
486
                strBackupName = m strBackupDir + (LPCSTR) cstrFileName;
487
488
                rename(strFileName.c_str(), strBackupName.c_str());
489
490
491
        catch(_com_error & e)
492
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
493
            msg << "Error during applyDBUpdates(). Error = [";</pre>
494
            msg.appendError(e);
495
496
            msg << "].";
            msg.Post(_logAll);
497
498
            fSuccess = false;
499
500
        catch (CException * pE)
501
            CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
502
503
            char pszErrorMessage [256];
            pE->GetErrorMessage(pszErrorMessage, 256);
504
            msgError << "Error during applyDBUpdates(). Error = {" << pszErrorMessage << ⊌
505
        "1";
506
            pE->Delete();
507
            fSuccess = false;
508
        }
509
        catch(...)
510
            CLogMsgEvent(LCEV_GENERIC, SVRTY_WARNING, "Unknown exception during
511
        applyDBUpdates().").Post(_logAll);
512
            fSuccess = false;
513
514
515
        return true;
```

```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
516 }
517
518 LRESULT CWndMonitorISP::onApply(WPARAM, LPARAM)
519 {
520
        bool fSuccess = true;
521
522
        try
523
524
            HRESULT hr = m_spKCData.CreateInstance(_ auidof(KCData));
525
            if (FAILED(hr))
526
527
                 CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
528
                 msg << "Unable to instantiate IKCData. Error = [0x" << std::hex << hr << 🗸
        "].";
529
                 msg << " Database updates were not applied.";
530
                 msg, Post ( logAll);
531
                 throw E_FAIL;
532
            ž
533
534
            m_spKCData->open();
535
536
            if (!m_zipper.createInstance())
537
                throw E FAIL;
538
539
            m_strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
540
            m_strProcDir - m_registry.m_strLocalDirectory + "Process\\";
541
542
            applyDBUpdates();
543
            applyLCUsersUpdates();
544
            applyAppUpdates();
545
546
            m_spKCData->close();
547
548
        catch(_com_error & e)
549
550
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY WARNING);
551
            msg << "Error duringonApply(). Error = (";</pre>
552
            msg.appendError(e);
            msg << "].";
553
554
            msg.Post(_logAll);
555
            fSuccess = false:
55€
557
        catch (HRESULT hrError)
558
559
            hrError:
            fSuccess = false;
560
561
        ì
562
563
        // done, go back into a wait state till next maintenance run
564
        setState(ST CHECKTIME);
565
        SetTimer(TIMER_CHECKTIME, INTERVAL_CHECKTIME, 0);
566
567
        return fSuccess ? TRUE : FALSE;
568 }
569
570 void CWndMonitorISP::clearDirectory(const char * pszDir)
531 4
        string strSearchName = pszDir;
572
573
        strSearchName += "*.*";
574
575
        CFileFind ffLocal;
        BOOL fFileFound = ffLocal.FindFile(strSearchName.c_str());
576
577
        while (fFileFound)
578
        1
579
            fFileFound = ffLocal.FindNextFile();
```

if (ffLocal.IsDirectory())

```
CString cstrFileName = ffLocal.GetFilePath();
581
            remove(cstrFileName);
582
583
        }
584
505
        return;
586
587 )
589 bool CWndMonitorISP::cleanChartersDirectory()
588
         if (m_registry.m_strChartDir.size() -- 0)
 590 (
 591
            return true;
 592
 593
         FILETIME ft;
         COleDateTime odtYesterday = COleDateTime::GetCurrentTime();
 594
         COleDateTime odtFile;
 595
         COleDateTimeSpan spanDay(1, 0, 0, 0);
 596
         odtYesterday -= spanDay:
 597
 598
         string strSearchName = m_registry.m_strChartDir + "*.*";
 599
         CString cstrFileName;
 600
 601
  602
          CFileFind ffCharts;
          BOOL fFileFound = ffCharts.FindFile(strSearchName.c_str());
  603
  604
  605
          while (ffilePound)
  606
              fFileFound = ffCharts.FindNextFile();
  607
              if (ffCharts.IsDirectory())
  608
  609
                  continue;
              ffCharts.GetLastWriteTime(Lft);
  610
   611
              odifile - ft;
               if (odtFile < odtYesterday)
   612
   613
                   cstrFileName = ffCharts.GetFilePath();
               {
   614
                   remove(cstrFileName);
   615
   616
   617
           }
   618
   619
           return true;
   620
   621 }
   623 bool CWndMonitorISP::deleteOldBackups()
    €24 {
            bool [Success - true;
    625
            string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
    626
    627
             chdrive(m registry m lLocalDrive);
    628
            _chdir(strBackupDir.c_str());
    629
    630
    631
                                 ffBackup;
            CFilcFind
                                 cstrFileName;
     632
            CString
     633
                                 fnKiosk;
            CFileNameKiosk
                                  odtDeleteDate;
     634
             COleDateTime
                                 spanRetentionPeriod;
             // set up the delete date by taking todays date and subtracting backup retention arksigma
     635
             COleDateTimeSpan .
     636
     637
             spanRetentionPeriod.SetDateTimeSpan(m_registry.m_lBackupRetentionDays, 0, 0, 0);
     638
     639
             SYSTEMTIME st;
     640
             odtDeleteDate.SetDate(st.wYear, st.wMonth, st.wDay);
      641
              odtDeleteDate -= spanRetentionPeriod;
      642
      643
              // set up wild card search
      644
      645
```

pszLastOperation = "SetCurrentDirectory():";

throw E_FAIL;

if (!pconnFtp->SetCurrentDirectory(m_registry,m_strHostDirectory.c_str()))

707

708 709

719

```
// get files peculiar to this kiosk
712
          713
714
         CFileNameKiosk fnKiosk;
          fnKiosk.set("direction", "D");
715
          fnKiosk.set("kiosk id", m registry.m strKioskId.c_str());
fnKiosk.set("date", "*");
716
717
          fnKiosk.setExtension("zip");
718
719
          string strSearchFileName;
          fnKiosk.getFullName(strSearchFileName);
720
         pszlestOperation = "pullFtpFiles(KicokId.zip):";
721
         pullFtpFiles(pronnFtp, strSearchFileName.c_str(), true);
722
723
          fnKiosk.setExtension("xml");
724
          fnKiosk.getFullName(strSearchFileName);
725
          ps:LastOperation = "pullFtpFiles(KioskId_xml):";
726
          pullFtpFiles(pconnFtp, strGearchFileName.c str(), true);
727
728
          729
          // get application files targeted for all kiosk
730
          731
          fnKiosk.set("kiosk id", "KALL");
732
          fnKiosk.setExtension("zip");
733
          fnKiusk.getFullName(strSearchFileName);
734
735
          pszLastOperation = "pullFtpFiles(KALL.zip):";
          pullFtpFiles(pconnFtp, strSearchFileName.c_str(), false);
736
737
          738
          // get lifeclinic users
739
          minmmummmm
740
          CFileNameDelimited fnLCUsers;
741
          fnbCUsers.append("direction", "D");
742
          fnLCUsers.append("file", "LCUSERS");
fnLCUsers.append("date", "*");
743
          fnLCUsers.append("date",
744
          fnLCUsers.setExtension("zip");
745
          fnLCUsers.getFullName(strSearchFileName);
746
          pszLastOperation = "pullFtpFiles(LCUsers):";
747
          pullFtpFiles(pconnFtp, strSearchFileName.c_str(), false);
748
749
          750
          // put daily transaction files to the host
751
          752
          pszhastoperation = "Exporthata:";
753
754
          exportData();
755
          // set up wild card search name
756
          fnKiosk.set("direction", "U");
757
          fnKiosk.set("kiosk_id", m_registry.m_strKioskId.o_str());
758
          fnKiosk.set("date", "*");
759
          fnKiosk.setExtension("xml");
760
          fnKiosk.getFullName(strSearchFileName);
761
          pszLastOperation = "pushFtpFiles():";
762
          pushFtpFiles(pconnFtp, strSearchFileName.c_str());
763
          fSuccess = true;
764
765
       catch (CInternetException * pE)
766
767
          char pszErrorMessage 12561:
768
          pE->GetErrorMessage(pszErrorMessage, 256);
769
          msgError << pszLastOperation << " Error = [0x" << std::hex << pE->m dwError;
770
          magError << "(" << std::dec << pE->m_dwError << ")]. ";
771
          msgError << "Error message = [" << pszErrorMessage << "]";
772
773
          pE->Delete();
774
       catch (CException * pE)
775
776
          char pszErrorMessage [256];
777
```

```
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```

```
pE->GetErrorMessage(pszErrorMessage, 256);
778
            msgError << pszLastOperation << "Error message = [" << pszErrorMessage << "]";
779
780
            pE->Delete();
781
        catch (DWORD dwBrror)
782
783
            msgError << pszLastOperation << "Error = [0x" << std::hex << dwError;
784
            msgError << "(" << std::dec << dwError << ")]. ";
785
786
787
        catch {...}
788
            msgError << pszLastOperation << "Error = [Unknown Exception]";</pre>
789
790
791
792
        if (pconnFtp != NULL)
793
794
            pconnFtp->Close();
795
            delete pownnFtp;
796
797
798
        if (!fSuccess)
            msgError.Post(_logAll);
799
6.0.0
801
        return [Success;
802 }
803
804 bool CWndMonitorISP::pullFtpFiles(CFtpConnection * pconnFtp, LPCSTR pszFileSearch,
        bool fMarkHostFile) [Claim 1b, 2a, 4a, 6c, 7b]
805 (
806
                         cstrFileName;
        CString
                         striocalFileName;
807
        string
                         strProcessFileName;
        string
808
                         ffLocal;
809
        CFileFind
810
        string strXferDir = m_registry.m_strLocalDirectory + "Xfer\\";
811
        string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
812
        string strProcDir = m_registry.m_strLocalDirectory + "Process\\";
813
814
815
        CFtpFileFind
                         ffHost (pconnFtp);
816
        // get the directory
817
        BOOL fFileFound = ffHost.FindFile(pszFileSearch);
818
819
820
        // now get each file in list
        while (ffilefound)
821
822
        {
            fFileFound = ffHost.FindNextFile();
823
            cstrFileName = ffHost.GetFileName();
824
825
            // check to see if we've already pulled or applied file, if so, don't pull it
826
            strLocalFileName = strBackupDir + (const char *) cstrFileName;
827
            if (ffLocal.FindFile(strLocalFileName.c_str()))
828
                 continue;
829
830
             strLocalFileName = strProcDir + (const char *) cstrFileName;
831
            if (ffLocal.FindFile(strLocalFileName.c_str()))
832
                 continue;
933
834
             // pull file over ftp
835
             strLocalFileName = strXferDir + (const char *) cstrFileName;
836
             if (!pconnFtp->GetFile(cstrFileName, strLocalFileName.c_str()))
837
                 throw GetLastError();
838
839
             // move the file to the process directory
840
             strProcessFileName = strProcDir + (const char *) cstrFileName;
841
             if (rename(strLocalFileName.c_str(), strProcessFileName.c_str()))
842
```

```
843
                throw (DWORD) errno;
844
845
            if (fMarkHostFile)
846
347
                // rename file on host, deletes do not work on cached ftp files
848
                string strNewName = (const char *)cstrFileName;
849
                strNewName += 'x';
                if (!pconnFtp->Rename(cstrFileName, strNewName.c_str()))
850
851
852
                    DWORD dwError = GetLastError();
853
                    CLogMsgEvent msgError(LCEV GENERIC, SVRTY WARNING);
                    msgError << "Unable to mark host file [";
854
                    msgError << (const char *) cstrFileName << "]. Error = [Ux";
855
                    msgError << std::hex << dwError << std::dec << " (" << dwError << ") ]v
856
        .";
857
                    msgError.Post(_logAll);
858
959
860
861
862
        return true;
863 }
9.64
865 bool CWndMonitorISP::pushFtpFiles(CFtpConnection * pconnFtp, LPCSTR pszFileSearch)
866 (
867
        CString cstrFileName;
       string strLocalFileName;
868
869
        string strXferDir = m registry.m strLocalDirectory + "Xfer\\";
        string strBackupDir = m_registry.m_strLocalDirectory + "Backup\\";
870
871
        string strSearchFileName = strXferDir + pszFileSearch;
872
873
        CFileFind ffLocal;
874
        BOOL fFileFound = ffLocal.FindFile(strSearchFileName.c_str());
875
        while(fFileFound)
876
        ĺ
877
            fFileFound = ffLocal.FindNextFile():
878
            cstrFileName = ffLocal.GetFileName();
879
880
            // send the file
            strLocalFileName = strXferDir + (const char *) cstrFileName;
881
            if (!pconnFtp->PutFile(strLocalFileName.c_str(), cstrFileName))
882
883
                throw GetLastError();
884
895
            // move the file to the backup directory
885
            string strBackupFileName = strBackupDir + (const char *) cstrFileName;
            if (rename(strLocalFileName.c_str(), strBackupFileName.c_str()))
887
888
                CLogMsgEvent msgError(LCEV_GENERIC, SVRTY_WARNING);
889
                msgError << "Unable to move file {" << (const char *) cstrFileName << "} "&
9.90
                msgError << "to the backup directory.";
891
892
                msgError.Post(_logAll);
893
894
895
        return true;
896 }
897
898 bool CWndMonitorISP::exportData()[Claim 5a]
899 [
900
        bool fSuccess = true; |
901
902
        string strFileName;
903
        SYSTEMTIME tm;
904
        GetLocalTime(&tm);
905
        DATE dateNow;
906
```

```
907
        // build file name
        SystemTimeToVariantTime(&tm, &dateNow);
908
909
        CFileNameKiosk fnKiosk;
910
        fnKiosk.set("direction", "U");
        fnKiosk.set("kiosk_id", m_registry.m_strKioskId.c_str());
inKiosk.set("date", dateNow);
911
912
913
        fnKiosk.setExtension("xml");
914
        fnKiosk.getFullName(strFileName);
915
916
        // get the exported data
917
        IKCDataPtr spKCData;
918
        HRESULT hr = spKCData.CreateInstance(_uuidof(KCData));
919
        if (FAILED(hr))
920
921
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
            msg << "Unable to instantiate IKCData object. Error = [0x";
922
923
            msg << std::hex << hr << "].";
924
            meg.Post(_logAll);
925
        }
926
927
        try
928
929
            // get the exported data
930
            spKCData->open();
931
             variant_t vData = spKCData->getUnexportedData();
            string strkml = (char *) (_bstr_t) vData;
992
وزو
934
            // encrypt the data
935
            CEncryptor encrypt;
936
            string strXmlEncrypted;
937
            enerypt.Encrypt(strXml.c_str(), NULL, strXmlEncrypted);
938
939
            // write the data out
940
            CFile fileOut;
941
            string strFileOut = m_registry.m_strLocalDirectory + "Xfer\\";
942
            strFileOut += strFileName:
943
            fileOut.Open(strFileOut.c_str(), CFile::modeCreate | CFile::modeWrite);
944
            fileOut.Write(strXmlEncrypted.c_str(), strXmlEncrypted.size());
945
            fileOut.Close();
946
947
            // mark all data exported
948
            spKCData->markDataExported();
949
950
            spRCData->close()?
951
952
            fSuccess = true;
953
954
        catch (_com_error & e)
955
956
            CLogMsgEvent msg (LCEV GENERIC, SVRTY WARNING);
957
            msg.setError(e);
958
            msq.Post(logAll);
959
            fSuccess = false;
960
961
        catch(CFileException * pEx)
962
963
            char szError [256];
964
            pEx->GetErrorMessage(szError, 256);
            CLogMsgEvent msg(LCEV_GENERIC, SVRTY_WARNING);
965
966
            msg << "CFile threw exception. Error = [" << szError << "]. ";
            msg << "Cause = [" << pEx->m_cause << "].";
967
968
            msg.Post( logAll);
969
            pEx->Delete();
970
        )
971
        catch (bool FError)
972
```

```
c:\Documents and Settings\Billy\My ...\LCKioskClient\wndMonitorISP.cpp
    973
    974
    975
            catch(...)
   976
                                                                                             16
   977
               CLogMagEvent mag(LCEV_GENERIC, SVRTY_WARNING);
   978
               mag << "Unknown exception type caught in CWndMonitorISP::exportData().";
   979
   980
              fSuccess = false;
   981
  982
  983
          return fSuccessi.
  984 }
  985
  986 void CWndMonitorISP::buildDirectoryStructure()
 987 (
         string strBaseDir = m_registry.m_strLocalDirectory;
 989
         string strDir = strBaseDir + "Xfer\\";
 990
         mkdir(strDir.c_str());
 991
        strDir = strBaseDir + "Backup\\";
 992
        mkdir(strDir.c_str());
 993
        strDir = strBaseDir + "Process\\";
994
        mkdir(strDir.c_str());
995.
        strDir += "LCGSers\\";
996
        mkdir(strDir.c_str());
997
998 j
999
```

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
  1 #include "xc_OtherCommands.h"
  2 #include "rs_kinsk_h"
  5 CMC_IMPLEMENT_FACTURY (Cxc_applyRioskTrans)
  7 bool Cxc_applyKioskTrans::execCommand()
  8 (
  9
        bool fSuccess = true;
 10
        bool fTransStarted = false;
 11
        m_pconn = NULL;
 12
        m lAuditId = 0;
 13
 14
        try
 15
        ł
 15
            Cis_kiusk_daily_trans
                                     isTians;
 17
 18
            string strKioskId;
 19
            string strRecId;
 20
 21
            getParm("kiosk_id", strKioskId);
 22
            getParm("rec_id", strRecId);
 23
 24
            long lKioskId = atol(strKioskId.c_str());
25
            long lRecId = atol(strRecId.c_str());
26
27
            if (lKioskId == 0)
28
            é
29
                m_embast << "\"kiosk_id\" is a required parameter.";</pre>
30
                throw fSuccess = false;
31
            ì
32
33
            if (lRecId == 0)
34
            {
35
               m_emLast << "\"rec_id\" is a required parameter.";</pre>
36
               throw fSuccess = false;
37
38
39
           m pconn = m_pcoClient->getConnection();
40
           if (m_pconn == NULL)
41
           į
42
               m_embast.setError(m_proClient->getbastError());
43
               throw fSuccess = false;
44
           3
45
46
           rsTrans.setActiveCommand("cmdGetTrans");
          rsTrans.setParameter("klosk_id", _variant_t(lKioskId));
rsTrans.setParameter("rec_id", _variant_t(lRecId));
47
48
49
50
           if (!m_pconn->execute(rsTrans))
51
           {
52
               m_emLast.setError(m_pconn->getLastError());
53
               throw fSuccess = false;
54
55
56
           if (rsTrans.isEmpty())
57
58
               m_emLast << "There are no transactions for klosk_id [" << lKioskId << "], &
      rec_id [";
59
               m_emLast << 1Reald << "].";</pre>
               throw fSuccess = false;
60
61
           Ţ
```

// get the transactions in xml format

rsTrans.getField("data", strXml);

string strXml;

62 63

54

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
              66
                         CXmlDocument xdocTrans(strXml.c_str());
              67
                         if (!xdocTrans_isBeady())
             58
             69
                             string strParseError;
             70
                             xdocTrans.gctParscrError(strParscError);
             71
                            MGGCITARS.gctrarscriptor(strearscriptor);
m_emlast << "Unable to parse XML transactions. kiosk id = [" << lkioskid;
m_emlast << "], rec_id [" << lkecid << "]. Error = [" << strparseError << v
             72
                    "],";
            73
            74
            75
            76
                       CXmlElement elTable;
           77
           78
                       fTransStarted = m_pconn->beginTrans();
           79
           80
                      m_lAuditId = getAuditId();
           81
          82
                      // apply alternate id
          83
                      if (xdocTrans.getItem("kc_id_map", &elTable))
          84
          85
                          xdocTrans.pushCurrent(&elTable);
          86
                         Crs_kc_id_map rsAld;
          87
                         rsAld.setActiveCommand("applyTrans");
         88
                         fSuccess = applyTransactions(xdocTrans, rsAId);
         89
                         xdocTrans.popCurrent();
         90
                     ţ
         91
        92
                    // apply klosk users
        93
                       (fSuccess to xdocTrans.getItem("kc_user", telTable))
        94
        95
                        xdocTrans.pushCurrent(&elTable);
        96
                       Crs_kc_user_rsUser:
       97
                       rsuser_setActiveCommand("applyTrans");
       98
                       fSuccess = applyTransactions(xdocTrans, rsUser);
       99
      100
                   )
      101
     102
                  // apply blood pressures
     103
                  if (fSuccess & xdocTrans.getItem("kc_blood_pressure", &elTable))
     104
     105
                      xdocTrans.pushCurrent(&elTable);
    106
                     Crs_kc_blood_pressure rsBP;
    107
                     rsBP.setActiveCommand("applyTrans");
    108
                     fSuccess = applyTransactions(xdocTrans, rsBP);
    109
                     xdocTrans.popCurrent();
    110
   ïii
   112
                // apply weights
   113
                if (fSuccess && xdocTrans.qetItem("kc_weight", &elTable))
   114
   115
                    xdocTrans.pushCurrent(&elTable);
  116
                    Crs_kc_weight rsWeights;
  117
                   rsWeights.setActiveCommand("applyTrans");
  118
                   fourcess = applyTransactions (xdocTrans, rsWeights);
  119
                   xdocTrans.popCurrent();
 120
 121
 122
              fTransStarted = false;
 123
 124
              string strStatus;
125
             string strReason;
126
             if (fSuccess)
127
128
                 m_pconn->commitTrans();
129
                 strStatus = "p";
130
```

```
c:\Documents and Settings\Billy\My ...\LCBroker\xc applyKioskTrans.cpp
  131
                €1se
  132
                 (
  133
                     m_pconn->rollbackTrans();
  134
                     strStatus = 'E';
  135
                     m_emLast.getError(strReason);
  136
  137
  138
                // mark transaction processed
  139
                rsTrans.setActiveCommand("cmdUptKioskTrans");
               rsTrans.setRetreeommant( canopertosations; ; rsTrans.setParameter("kiosk id", _variant_t(lKioskId)); rsTrans.setParameter("rec_id", _variant_t(lRecId)); rsTrans.setParameter("status", _variant_t(strStatus.c_str())); rsTrans.setParameter("reason", _variant_t(strReason.c_str())); rsTrans.setParameter("audit_id", _variant_t(lL));
  140
  141
  142
 143
 144
 145
                if (im_pconn->execute(rsTrans))
 146
 147
                     m_emLast.setError(m_pconn->getLastError());
 146
                     throw fSuccess = false;
 149
 150
 151
           catch(_com_error x e)
 152
 153
               m_emLast.setError(e);
 154
               fšuccess = false;
 155
           }
 156
           carch (bool fBool)
 157
158
               fBool;
 159
               fSuccess - false;
 160
 161
          catch(...)
162
 163
               m_emLast.setError("Unkown exception raised. [Command:applyKioskTrans]");
 164
               fSuccess = false;
165
          ŀ
166
167
          if (fTransStarted)
168
169
               if (fSuccess)
170
                   m_pconn->commitTrans();
171
               else
172
                   m_pconn->rollbackTrans();
173
          }
174
175
          return fSuccess:
176 }
177
178 bool Cxc_applyKioskTrans::applyTransactions(CXmlDocument &xdocData, CSdoRecordset &
          rsCmdRecSet)
179 (
180
          bool fSuccess = false;
181
          string strTag;
182
         m_emLast.clear();
183
184
         try
185
          1
186
              //Active command is expected to be set prior calling.
187
168
              //get the Sdo command pointer
189
              CSdoCommand * pcmdSdo = rsCmdRecSet.getActiveCommand();
190
191
              //get the table element from the stack
192
              CXmlElement elTable;
193
              xdocData.getCurrent(&elTable);
194
              string strAttrValue;
195
              elTable.getAttribute("t", strAttrValue);
```

```
if (strAttrValue(0) != 't')
196
197
            {
198
                m_emLast.clear();
199
                m emLast << "Expecting XML table element to have attribute t=\"t\".";
200
                throw fSuccess = false;
201
202
203
            CXmlElement elRow;
            bool fRows = elTable.getFirst(&elRow); //get the "row" Element
204
205
                                                      //process for all "row" Elements
206
            while (fRows)
207
                //get "row"tag
208
209
                elRow.getTag(strTag);
210
                if (stricmp(strTag.c_str(), "row") != 0)
211
212
                    m emLast.clear();
213
                    m emlast << "Expecting KML element \"row\". Found \"" << strTag << "\"r
        . ";
214
                    fSuccess = false;
215
                    break:
216
217
216
                //Set all the parameters
                xdocData.pushCurrent(&elRow);
219
220 -
221
                pcmdSdo->clearParms();
222
                if (pcmdSdo->setParms(xdocData) == false)
223
224
                    string strError;
225
                    pcmdSdo->getLastError(strError);
                    m_emLast.setError(strError.c_str());
226
227
                    fSuccess = false;
                    break:
228
229
230
                if (m_lAuditId)
231
232
                    pcmdSdo->setParm("audit_id", _variant_t(m_lAuditId));
233
234
                xdocData.popCurrent();
235
236
                // update the table
237
                if (!(fSuccess = m pconn->execute(rsCmdRecSet)))
238
                    m emLast.setError(m pconn->getLastError());
239
                    fSuccess = false;
240
241
                    break;
242
243.
                //fetch next row to update.
244
245
                fRows = elTable.getNext(&elRow);
246
247
248
            fSuccess = true;
249
250
        catch(_com_error & e)
251
            m emLast.setError(e);
252
            fSuccess = false;
253
254
255
        catch (bool fBool)
256
257
            fBool;
            fSuccess = false;
258
259
260
        catch(...)
```

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